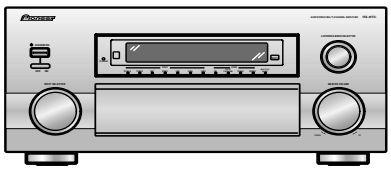
Pioneer *sound.vision.soul*

Service Manual



VSX-49TXi

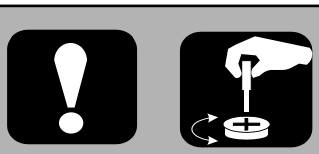
ORDER NO.
RRV2644

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-49TXi

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
VSX-49TXI	KU/CA	AC120V	



For details, refer to "Important symbols for good services" .

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
ⓒ**PIONEER CORPORATION 2002**

T-ZZR AUG. 2002 printed in Japan

SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

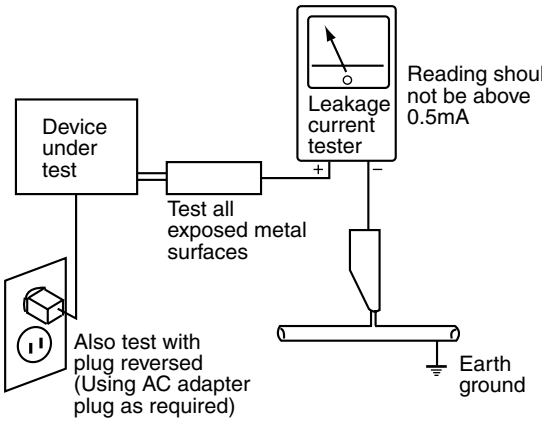
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Reading should not be above 0.5mA
Leakage current tester
+
–
Device under test
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important symbols for good services]
In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely.
When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety

You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments

To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning

For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws

To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts

Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount.For replacement parts or tools, the prescribed ones should be used.

CONTENTS

SAFETY INFORMATION 2
1. SPECIFICATIONS 6
2. EXPLODED VIEWS AND PARTS LIST 8
2.1 PACKING 8
2.2 EXTERIOR SECTION 10
2.3 CHASSIS SECTION 12
2.4 REAR PANEL SECTION 14
2.5 HEAT SINK SECTION 16
2.6 FRONT PANEL SECTION 18
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM 20
3.1 BLOCK DIAGRAM 20
3.2 OVERALL WIRING DIAGRAM 28
3.3 FM/AM TUNER MODULE 30
3.4 A/V I/O ASSY 32
3.5 COMPOSITE ASSY 34
3.6 S-VIDEO ASSY 36
3.7 V-CONVERT ASSY 38
3.8 COMPONENT ASSY 40
3.9 VIDEO CON., MIC AMP, MIC, FRONT A/V and H.P. ASSYS 42
3.10 ANALOG IN & A/D ASSY(1/3) 44
3.11 ANAALOG IN & A/D ASSY(2/3) 46
3.12 ANAALOG IN & A/D ASSY(3/3) 48
3.13 DISPLAY, INPUT SEL, MULTI JOG and VOL ASSYS 50
3.14 VR & PRE OUT ASSY(1/3) 52
3.15 VR & PRE OUT ASSY(2/3) 54
3.16 VR & PRE OUT ASSY(3/3) 56
3.17 MOTHER ASSY 58
3.18 DSP ASSY(1/5) 60
3.19 DSP ASSY(2/5) 62
3.20 DSP ASSY(3/5) 64
3.21 DSP ASSY(4/5) 66
3.22 DSP ASSY(5/5) 68
3.23 DSP3 ASSY 70
3.24 DAC10 ASSY(1/2) 72
3.25 DAC10 ASSY(2/2) 74
3.26 POWER AMP(L) and POWER AMP(C) ASSYS 76
3.27 POWER AMP(R), POWER AMP(BR) and POWER AMP(G) ASSYS 78
3.28 LOCAL SUPPLY ASSY 80
3.29 AC PRIMARY, POWER SW, SP(A), FL SUPPLY and STANDBY ASSYS 82
3.31 1394 MODULE(1/2) ASSY 86
3.32 1394 MODULE(2/2) ASSY 88
4. PCB CONNECTION DIAGRAM 90
4.1 FM/AM TUNER MODULE 91
4.2 A/V I/O ASSY 92
4.3 COMPOSITE ASSY 93
4.4 S-VIDEO ASSY 94
4.5 V-CONVERT ASSY 95
4.6 COMPONENT ASSY 96
4.7 VIDEO CONNECT ASSY 97
4.8 MIC AMP, MIC, FRONT A/V and HEADPHONE ASSYS 98
4.9 ANALOG IN & A/D ASSY 100
4.10 DISPLAY, INPUT SEL, MULTI JOG, FL SUP. and STANDBY ASSYS 102
4.11 VR & PRE OUT ASSY 106
4.12 MOTHER ASSY 108
4.13 DSP ASSY 112
4.14 DAC10 ASSY 114
4.15 DSP3 ASSY 116
4.16 POWER AMP(L) and POSISTER(L) ASSYS 117
4.17 POWER AMP(R) and POSISTER(R) ASSYS 119
4.18 POWER AMP(C), POWER AMP(BR) and POWER AMP(G) ASSYS 121
4.19 LOCAL SUPPLY and DSP DIODE ASSYS 122
4.20 AC PRIMARY, POWER SW and SP(A) ASSYS 124
4.21 TRANS(A), TRANS(B), DIODE and FUSE ASSYS 126
4.22 SP(B) ASSY 127
4.23 1394 MODULE ASSY 128

5. PCB PARTS LIST 129
6. ADJUSTMENT 143
7. GENERAL INFORMATION 144
7.1 DIAGNOSIS 144
7.1.1 Teat mode 144
7.1.2 Disassembly 148
7.2 PARTS 152
7.2.1 IC 152
7.2.2 DISPLAY 160
7.3 REMOTE CONTROL UNIT 162
7.3.1 EXPLODED VIEWS and PARTS LIST 162
7.3.2 Remote SCH 164
7.3.3 Remote PCB Diagram 166
7.3.4 Remote PARTS List 168
8. PANEL FACILITIES 169

1. SPECIFICATIONS

Amplifier Section

Continuous average power output of 160 watts* per channel, min., at 6 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 %** total harmonic distortion (front).

Continuous Power Output (6 Ω)
- Front ..... 160 W + 160 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
- Center ..... 160 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
- Surround ..... 160 W + 160 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
- Surr. back ..... 160 W + 160 W (20 Hz-20 kHz, 0.09 %, 6 Ω)

Continuous Power Output (8 Ω)
- Front ..... 130 W + 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
- Center ..... 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
- Surround ..... 130 W + 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
- Surr. back ..... 130 W + 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)

Audio Section

Input (Sensitivity/Impedance)
- PHONO MM ..... 4.7 mV/47 kΩ
- LINE ..... 382 mV/47 kΩ

Phono Overload level (T.H.D.0.1 %, 1kHz)
- PHONO MM ..... 120 mV

Frequency Response
- PHONO MM ..... 20 Hz to 20,000 Hz ± 0.3 dB
- LINE ..... 5 Hz to 100,000 Hz $^{+0}_{-3}$ dB

Output (Level/Impedance)
- LINE ..... 382 mV/2.2 kΩ

Tone Control
- BASS ..... ± 6 dB (100 Hz)
- TREBLE ..... ± 6 dB (10 kHz)
- LOUDNESS ..... +4/+2 dB (100Hz/10 kHz) (at volume position -40dB)

Signal-to-Noise Ratio (IHF, short circuited, A network)
- PHONO MM ..... 86 dB
- LINE ..... 105 dB

Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]
- PHONO MM ..... 83 dB
- LINE ..... 93 dB

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*

** *Measured by Audio Spectrum Analyzer.*

Maintenance of External Surfaces
- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

Video Section

Input (Sensitivity) ..... 1 Vp-p/75 Ω
Output (Level/Impedance) ..... 1 Vp-p/75 Ω
Signal-to-Noise Ratio ..... 70 dB
Frequency Response ..... 5 Hz to 10 MHz $^{+0}_{-3}$dB

Component Video Section

Input (Sensitivity) ..... 1 Vp-p/75 Ω
Output (Level/Impedance) ..... 1 Vp-p/75 Ω
Signal-to-Noise Ratio ..... 70 dB
Frequency Response ..... 5 Hz to 40 MHz $^{+0}_{-3}$dB

FM Tuner Section

Frequency Range ..... 87.5 MHz to 108 MHz
Usable Sensitivity ..... Mono: 13.2 dBf, IHF (1.3 μV/75 Ω)
50 dB Quieting Sensitivity ..... Mono: 20.2 dBf
Stereo: 38.6 dBf
Signal-to-Noise Ratio ..... Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Distortion ..... Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity ..... 60 dB (400 kHz)
Stereo Separation ..... 40 dB (1 kHz)
Frequency Response ..... 30 Hz to 15 kHz (± 1) dB
Antenna Input ..... 75 Ω unbalanced

AM Tuner Section

Frequency Range ..... 530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna) ..... 350 μV/m
Selectivity ..... 25 dB
Signal-to-Noise Ratio ..... 50 dB
Antenna ..... Loop antenna

Miscellaneous

Power Requirements ..... AC 120 V, 60 Hz
Power Consumption ..... 720 W, 965 VA
Power Consumption in Standby mode ..... 0.65 W
AC Outlet
- SWITCHED ..... 100 W (0.8 A) MAX

Dimensions ..... 440 (W) × 203 (H) × 476 (D) mm (17-5/16 (W) × 8 (H) × 18-3/4 (D) in.)
Weight (without package) ..... 29.3 kg (64 lb 6 oz)

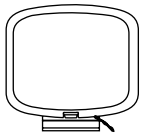
Furnished Parts

FM wire Antenna 1
AM Loop Antenna 1
"AA" IEC LR6 batteries 4
Remote Control Unit 1
Touch Pen 1
Cushion for Remote 4
Microphone 1
U-shaped connectors 2
Operating Instructions 1

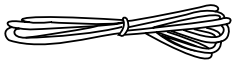
NOTE:

Specifications and the design are subject to possible modifications without notice, due to improv ements.

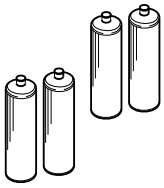
Accessories



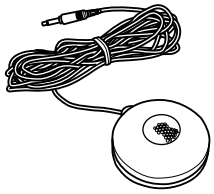
AM loop antenna
(ATB7009)



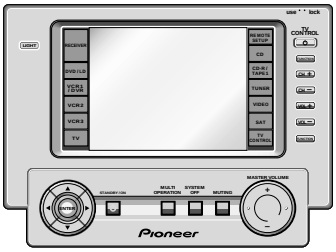
FM wire antenna
(ADH7010)



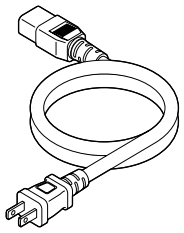
AA size IEC LR6
batteries (x4)



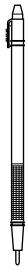
Microphone
(APM7003)



Remote control unit
(AXD7295)



AC power cord
(ADG7061)



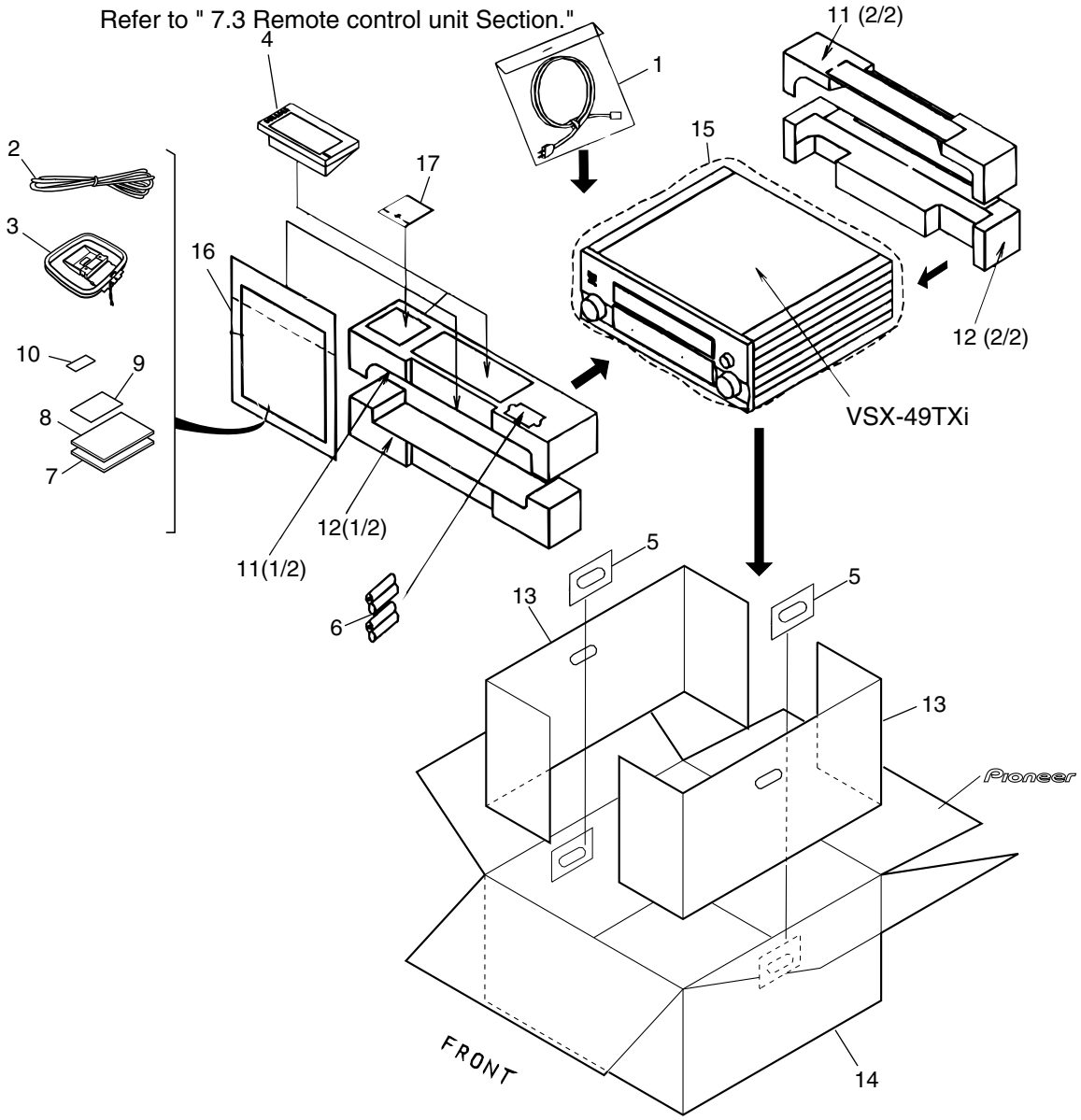
Touch pen
(AZA7350)

Cushion for Remote x4
(AEB7167)

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

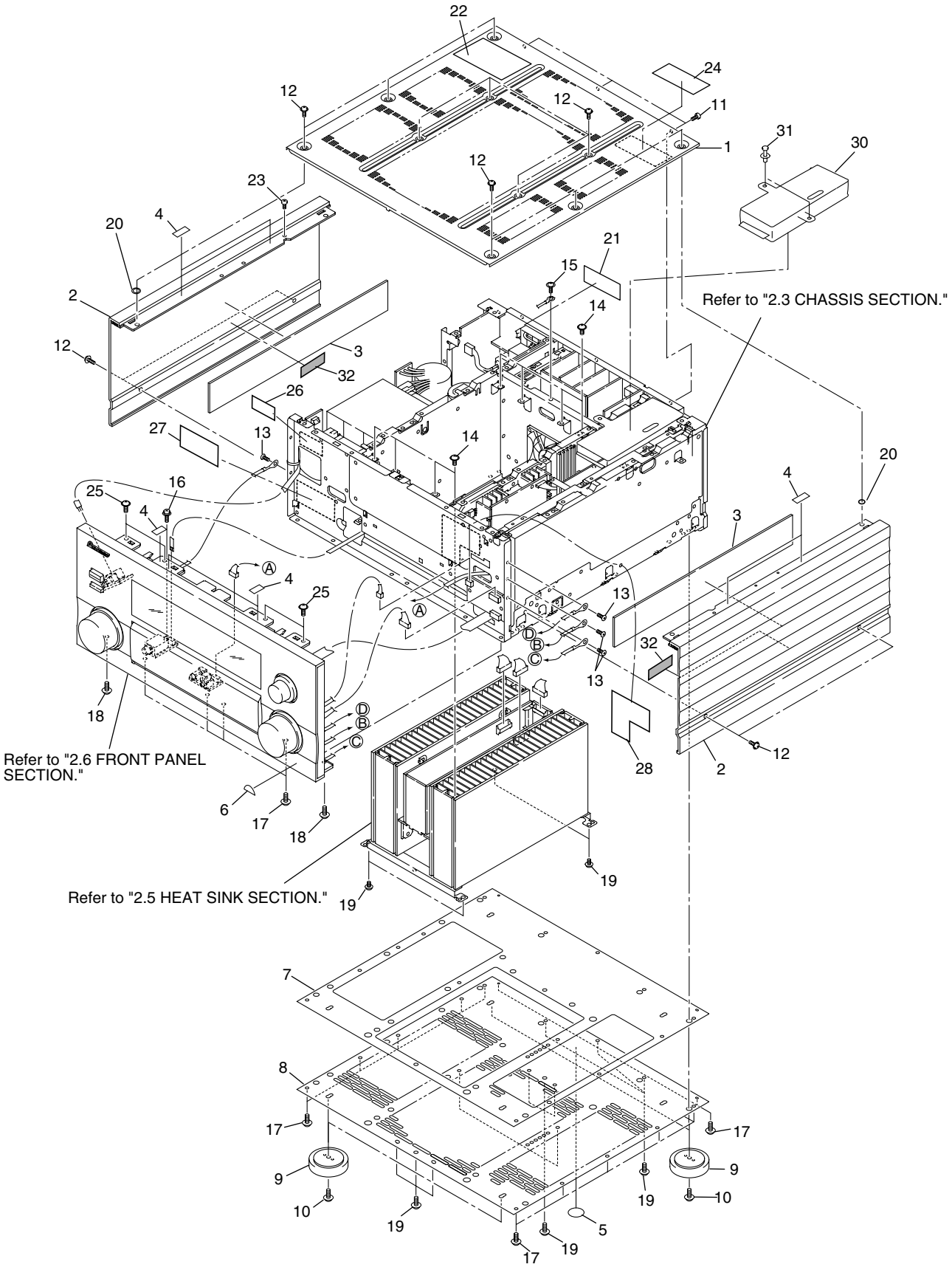
2.1 PACKING



PACKING parts List

Mark	No.	Description	Part No.
⚠	1	Power Cord	ADG7061
	2	FM Wire Antenna	ADH7010
	3	AM Loop Antenna	ATB7009
	4	Remote Control Unit AX10KU	AXD7295
	5	Handle Cover	AHX7034
	6	Alkaline Dry Cell Battery (LR6, AA)	VEM1021
	7	Operating Instructions (English)	ARB7268
	8	Caution Sheet SP, E	ARM7056
NSP	9	Warranty Card EL	ARY1026
	10	Cushion for Remote	AEB7167
	11	Top Pad	AHA7362
	12	Bottom Pad	AHA7363
	13	Spacer	AHB7057
	14	Packing Case	AHD8122
	15	Packing Sheet	DHL1022
NSP	16	Polyethylene Bag (0.03 x 230 x 340)	Z21-038
	17	Microphone	APM7003

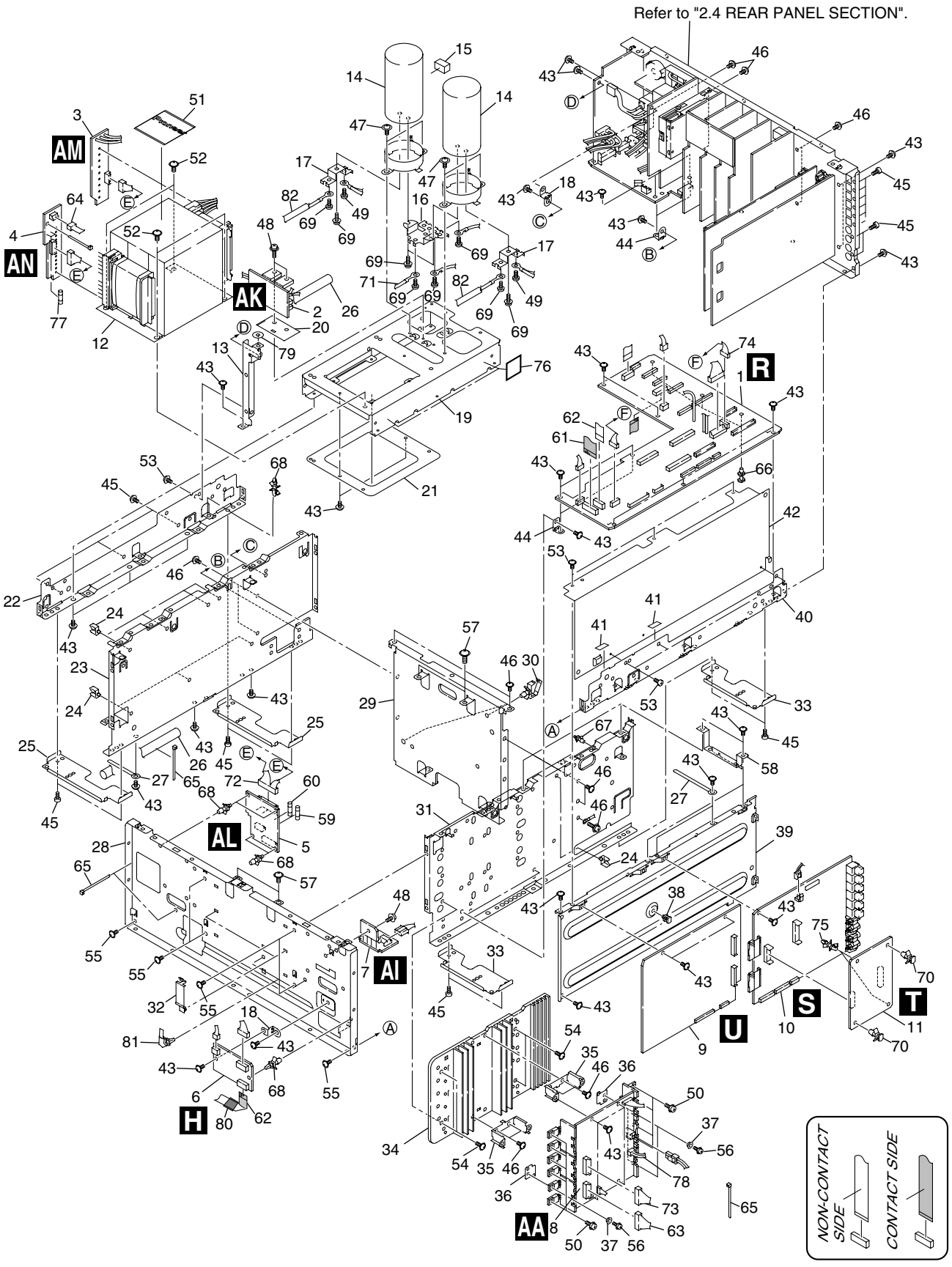
2.2 EXTERIOR SECTION



EXTERIOR SECTION parts List

Mark	No.	Description	Part No.
NSP	1	Top Plate BK	ANE7298
	2	Side Alum BK	AAH7095
NSP	3	Side Panel Sheet	AMR7284
NSP	4	Tape	PNM1249
	5	UL Caution Card	AAX-313
NSP	6	Energystar Label	AAX7876
NSP	7	Bottom Plate B	ANF7030
NSP	8	Bottom Plate A Cu	ANF7029
	9	Insulator Assy	VXA2368
	10	Screw	ABA1054
	11	Screw	BBT30P060FCC
	12	Screw	FBT40P080FZK
	13	Screw	ABA7079
	14	Screw	RBA1099
	15	Screw	VBA1056
	16	Screw	ABA1011
	17	Screw	ABA1050
	18	Screw	ABA1193
	19	Screw	IBZ30P090FCC
	20	Washer	VEC1254
NSP	21	Label	VRW162
	22	License Label	ARW7194
	23	Screw	BBZ30P080FCC
	24	65 Label	ARW7050
	25	Screw	BBT30P100FCC
NSP	26	ICP Caution Label	ARW7151
NSP	27	Fuse Caution Label	ARW7175
NSP	28	ICP Caution Label	ARW7150
	29	Binder	ZCA-BK1
	30	1394Module	AXQ7243
	31	Nylon Rivet	AEC-525
	32	Side Panel Sheet B	AMR7414

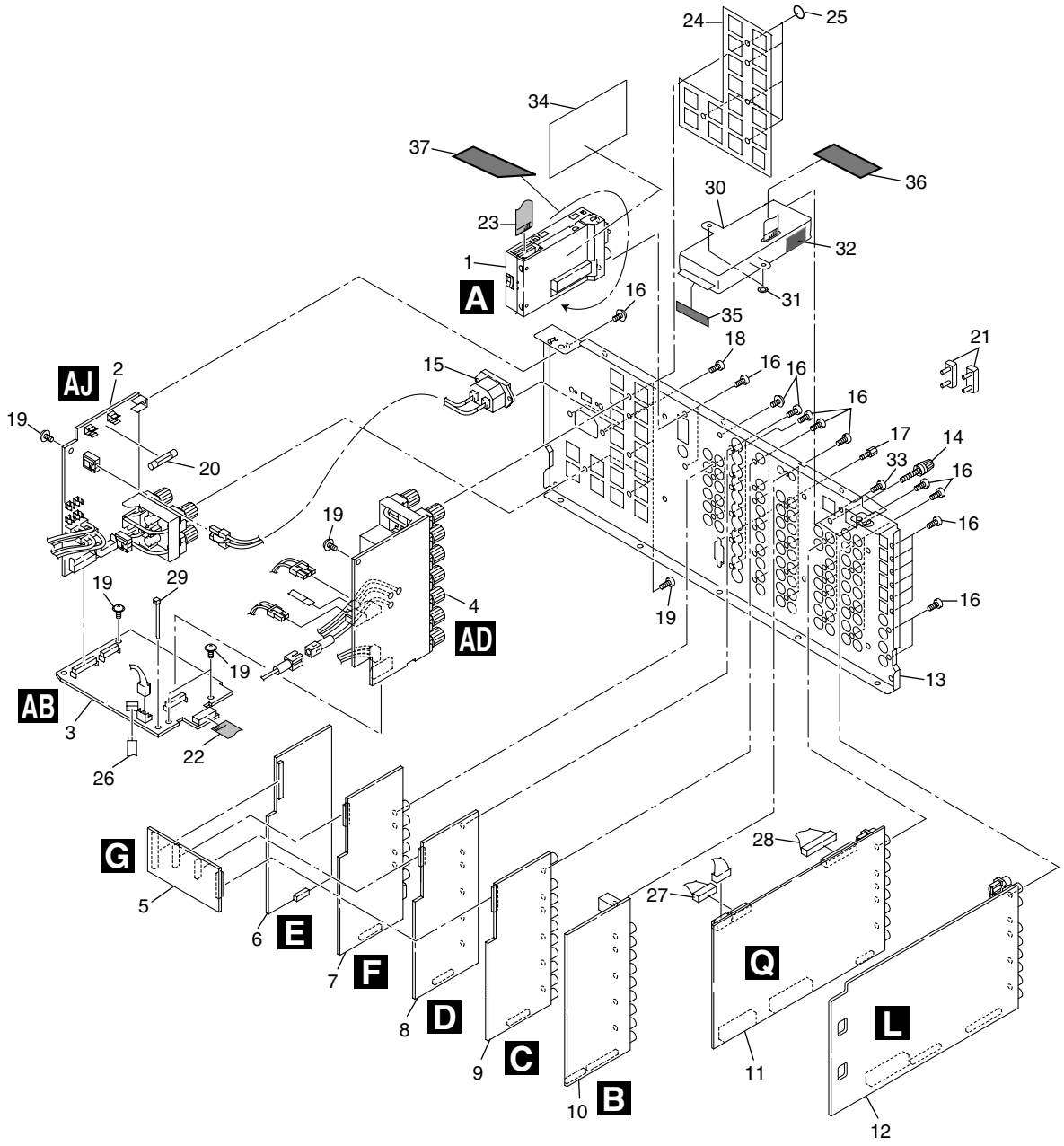
2.3 CHASSIS SECTION

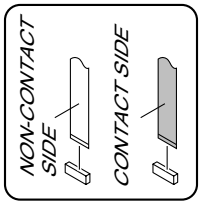


CHASSIS SECTION parts List

Mark	No.	Description	Part No.
	1	MOTHER Assy	AWX8142
	2	DIODE Assy	AWX7841
	3	TRANS (A) Assy	AWX7838
	4	TRANS (B) Assy	AWX8057
	5	FUSE Assy	AWX7843
	6	MIC AMP Assy	AWX7872
	7	DSP DIODE Assy	AWX7958
	8	LOCAL SUPPLY Assy	AWX7887
	9	DAC10 Assy	AWK7725
	10	DSP Assy	AWK7762
	11	DSP3 Assy	AWK7727
⚠	12	Power Transformer (T1)	ATS7320
NSP	13	PCB Holder B	ANG7388
	14	Capacitor (C1, C2)	ACH7164
	15	Rubber Spacer	AEB7244
NSP	16	Earth Plate	ANG7381
NSP	17	Joint Plate	ANG7382
NSP	18	PCB Base	RNE1849
	19	Trans Frame	ANA7142
	20	Radiation Sheet	AEE7043
NSP	21	Trans Stabilizer	ANG7378
NSP	22	Side Frame L	AWA7133
NSP	23	Side Wall L	AND7041
NSP	24	Wire Clip (A)	VEC1355
NSP	25	Insulator Frame B	ANG7377
	26	Glass Tube	ADN7006
	27	Cord Holder	RNH1005
	28	Panel Stay	AND7045
NSP	29	Fan Holder B	ANG7373
NSP	30	Wire Saddle	DEC1450
NSP	31	Side Wall R	AND7043
NSP	32	Flat Cable Clamp	AEC7376
NSP	33	Insulator Frame A	ANG7376
	34	Sub Heat Sink	ANH7154
NSP	35	PCB Holder D	ANG7392
	36	Mica Sheet S	AEE7042
	37	Bushing 26	AEC7128
NSP	38	PCB Spacer	AEC7156
NSP	39	Shield Case A	ANK7093
NSP	40	Side Frame R	ANA7135
NSP	41	Tape	PNM1249
NSP	42	Shield Case B	ANK7107
	43	Screw	ABA1011
NSP	44	PCB Holder C	ANG7389
	45	Screw	BBZ30P080FCC
	46	Screw	IBP30P090FCC
	47	Screw	VBA1056
	48	Screw	ABA1054
	49	Screw	ABA1082
	50	Screw	ABA7076
	51	Trans Label	AAX7897
	52	Screw	ABA1014
	53	Screw	BBT30P060FCC
	54	Screw	ABA1050
	55	Screw	ABA1192
	56	Screw	ABA7084
	57	Screw	RBA1099
NSP	58	PCB Frame B	ANG7386
⚠	59	Fuse (FU4, 4A)	VEK1023
⚠	60	Fuse (FU5-FU8, 2A)	VEK1019
	61	J29 FFC (17P) (Mother CN5807-DISPLAY CN3001)	ADD7329
	62	J30 FFC (11P) (Mother CN5806-MIC AMP CN3207)	ADD7330
	63	J16 8P Connector Assy (Local Supply CN4001-FUSE CN1802)	ADX7379
	64	J17 3P Connector Assy (Local Supply CN4002-TRANS(B) CN1701)	ADX7380
NSP	65	Binder	ZCA-BK1
NSP	66	Card Spacer	REC1156
	67	PCB Holder	PNW2100
	68	Locking Card Spacer	VEC2234
	69	Screw	ABA7017
	70	PC Support	DEC1772
	71	Oval head Terminal wire	ADX7366
	72	J1601 5P,7P Parallel wire	ADX7385
	73	J5805 9P Connector Assy (Local Supply CN4004-Mother CN5805)	ADX7378
	74	5802 Crimp Connector Assy (Mother CN5827-Mother CN5828)	PF06PP-R27
	75	PCB Spacer	VEC1508
NSP	76	Trans Frame Spacer	AEC7400
⚠	77	Fuse (FU9-FU10, 1A)	VEK1014
	78	J4001 2P Connector Assy (Local supply CN4005-DSP CN704)	ADX7407
	79	Washer	ABE-053
	80	Acetate tape	AEH7017
	81	Clamp	DEC1759
	82	Glass Tube(6x95)	ADN7010

2.4 REAR PANEL SECTION

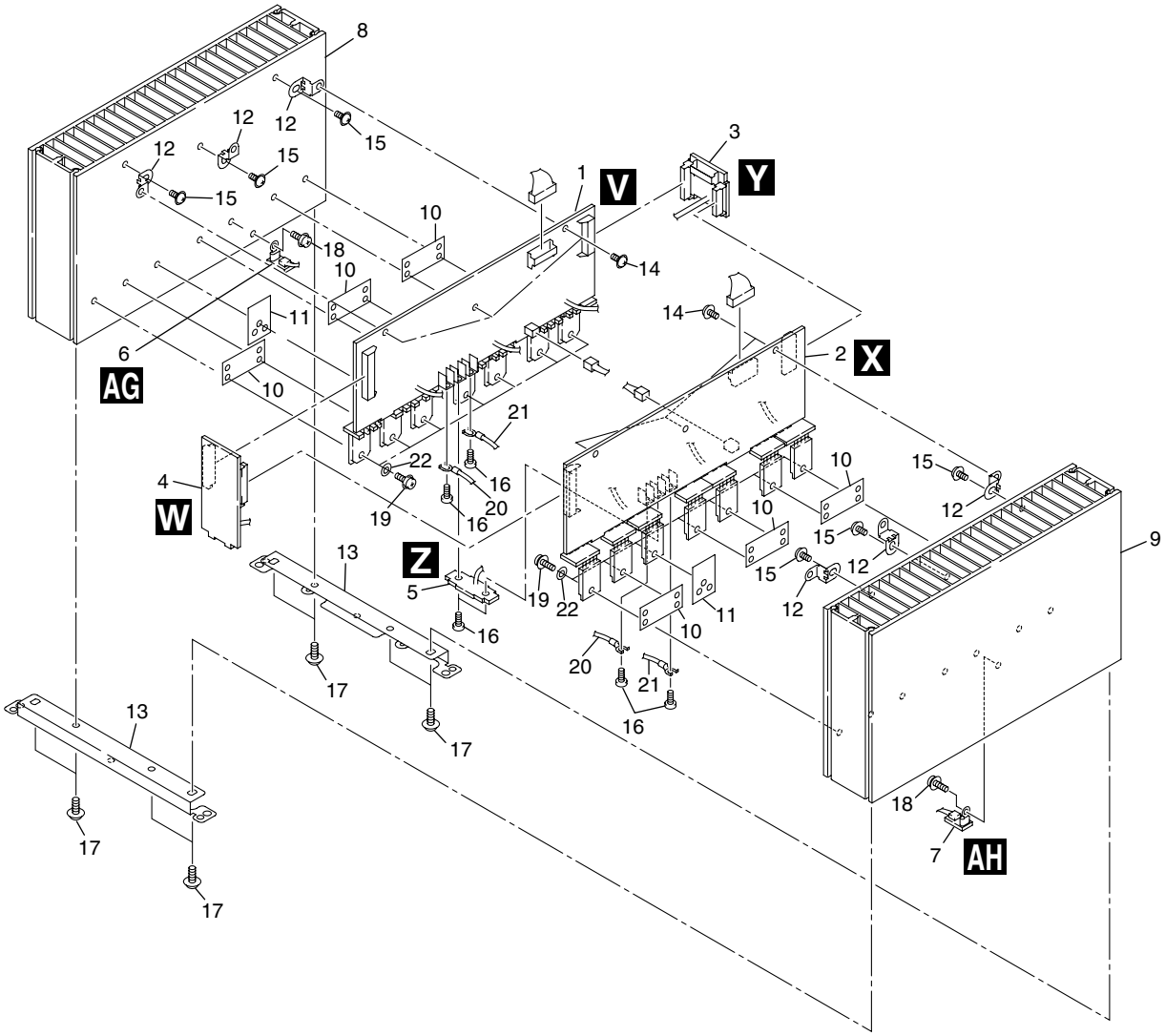




REAR PANEL SECTION parts List

Mark	No.	Description	Part No.
	1	FM/AM Tuner Module	AXQ7237
	2	SP (B) Assy	AWX8151
	3	AC PRIMARY Assy	AWX7834
	4	SP (A) Assy	AWX8148
	5	VIDEO CONNECT Assy	AWX7876
	6	V-CONVERT Assy	AWX8160
	7	COMPONENT Assy	AWX7953
	8	S-VIDEO Assy	AWX8159
	9	COMPOSITE Assy	AWX7942
	10	A/V I/O Assy	AWX7938
	11	VR & PRE OUT Assy	AWX7888
	12	ANALOG IN & A/D Assy	AWX7878
	13	Rear Panel	ANC8139
	14	Screw with Terminal	AKE-031
	15	AC Inlet Assy	ADX7395
	16	Screw	BBZ30P080FCC
	17	Hexagonal Screw	ABA7078
	18	Screw	ABA1193
	19	Screw	ABA1011
⚠	20	Fuse (FU1, 12A/125V)	AEK-306
	21	Short Pin Plug	AKM7005
	22	J23 FFC (14P) (SP(A) CN1104-Mother CN5801)	ADD7334
	23	J22 FFC (13P) (Yuner CN2705-Mother CN5802)	ADD7333
	24	Speaker Sheet 49	AAK7959
	25	Cushion Circle	AED7052
	26	J101 3P Connector Assy (AC Primary CN1105-Power SW CN1301)	D20PYY0365E
	27	J5001 8P Connector Assy (VR OUT CN5005 - Power AMP(BR) CN4811)	ADX7382
	28	J5002 14P Connector Assy (VR OUT CN5006 - Power AMP(L) CN4801 and Power AMP(R) CN4802)	ADX7381
	29	Binder	ZCA-BK1
	30	1394 Module	AXQ7243
	31	Fiber washer	RBF1045
	32	Tape	AEH7015
	33	Screw	BCZ30P060FCC
	34	Shield plate	AMR7445
	35	Acetate tape	AEH7018
	36	Shield cushion	AEB7274
	37	Acetate tape	ZTA-156A-19

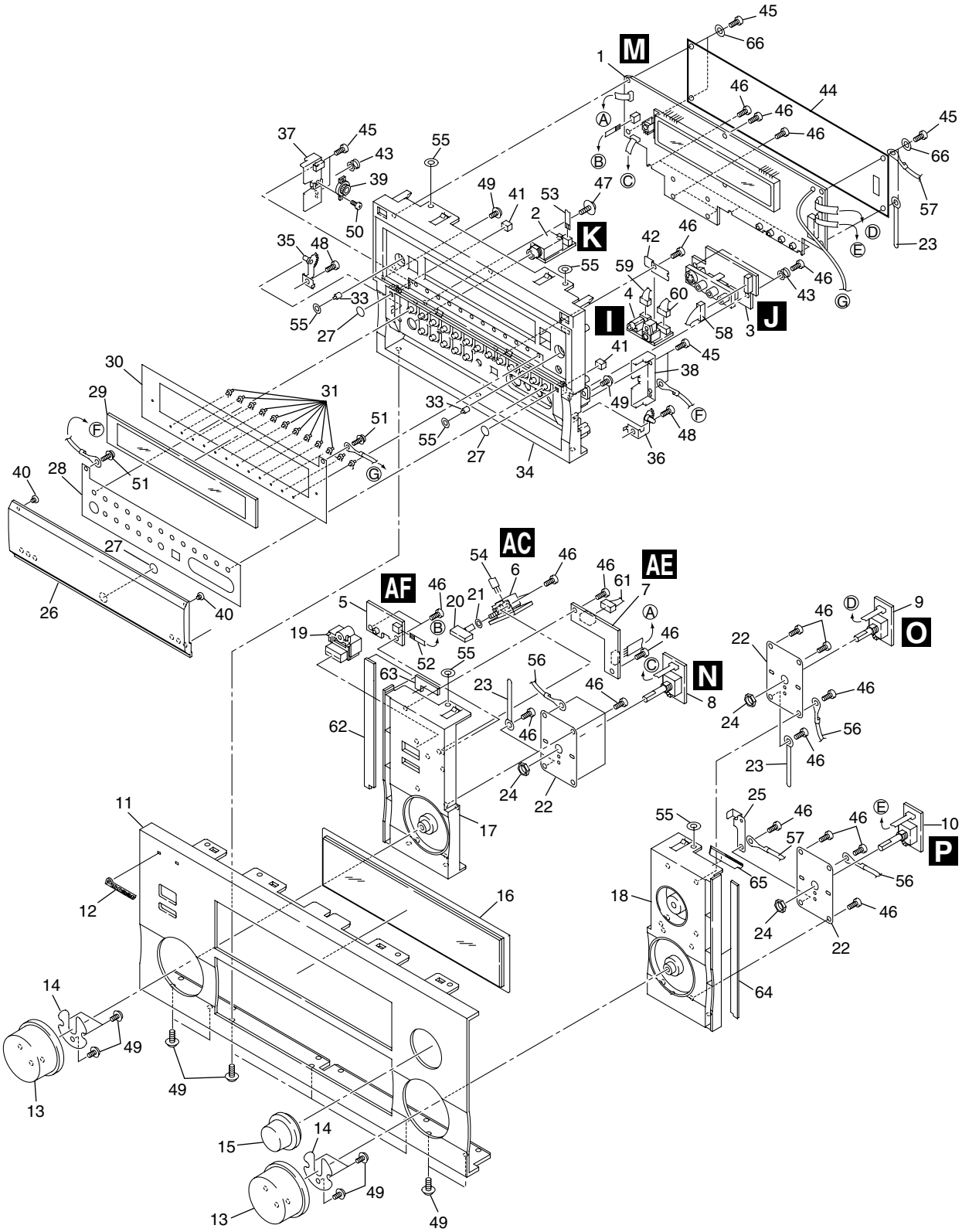
2.5 HEAT SINK SECTION



HEAT SINK SECTION parts List

Mark	No.	Description	Part No.
	1	POWER AMP (L) Assy	AWX7882
	2	POWER AMP (R) Assy	AWX7883
	3	POWER AMP (BR) Assy	AWX7885
	4	POWER AMP (C) Assy	AWX7884
	5	POWER AMP (G) Assy	AWX7886
	6	POSISTER (L) Assy	AWX7844
	7	POSISTER (R) Assy	AWX7846
	8	Heat Sink L	ANH7148
	9	Heat Sink R	ANH7162
	10	Mica Sheet L	AEE7048
	11	Mica Sheet M	AEE7046
NSP	12	PCB Holder A	ANG7387
NSP	13	Heat Sink Holder	ANG7375
	14	Screw	ABA1011
	15	Screw	IBP30P090FCC
	16	Screw	BMZ30P060FCU
	17	Screw	RBA1099
	18	Screw	ABA7076
	19	Screw	ABA7083
	20	Over head Terminal wire(RED)	ADX7383
	21	Over head Terminal wire(BLUE)	ADX7384
	22	Washer	WA32F100M050

2.6 FRONT PANEL SECTION



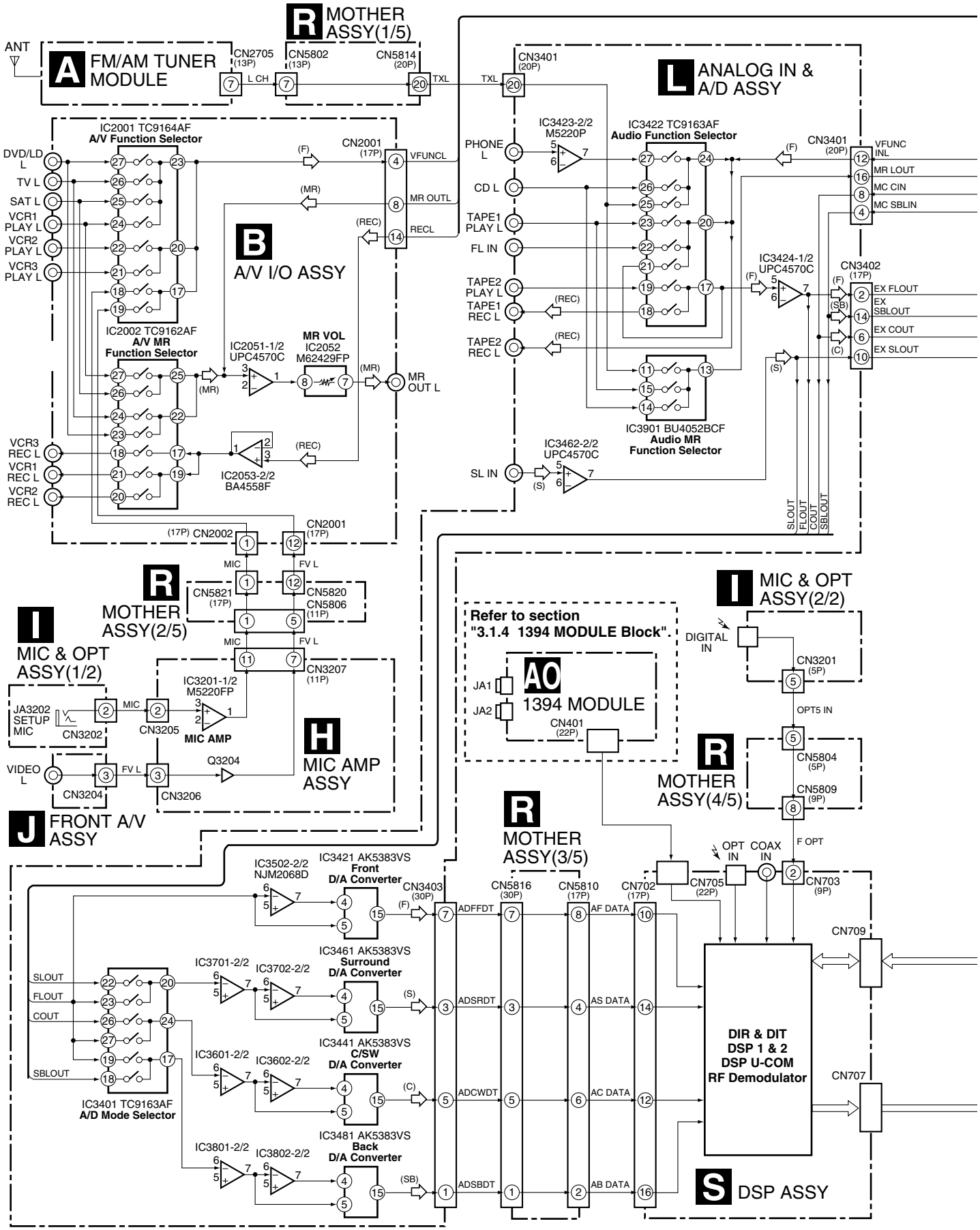
FRONT PANEL SECTION parts List

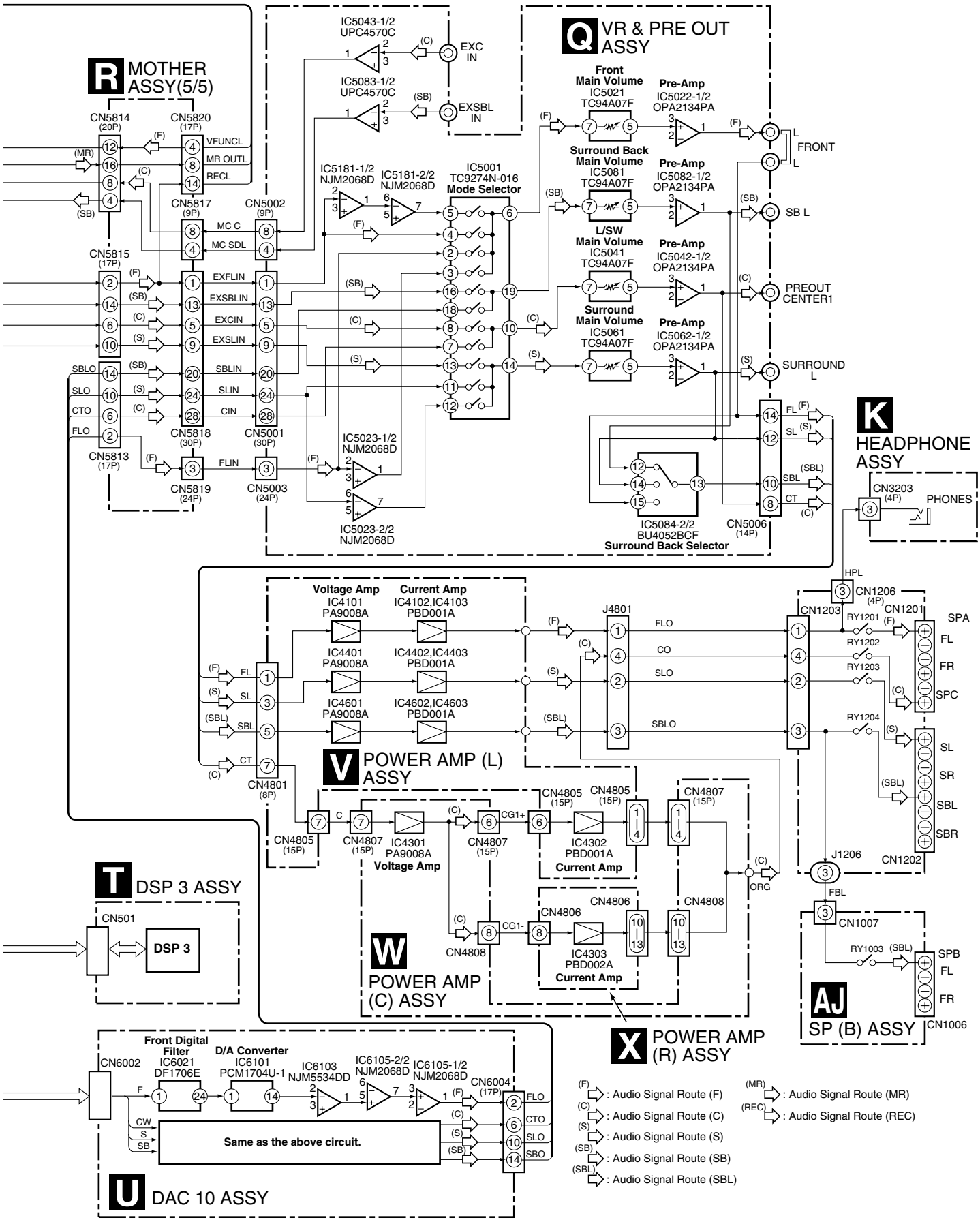
Mark	No.	Description	Part No.
	1	DISPLAY Assy	AWX8140
	2	HEADPHONE Assy	AWX7874
	3	FRONT A/V Assy	AWX8189
	4	MIC & OPT Assy	AWX7875
	5	STANDBY Assy	AWX7901
	6	POWER SW Assy	AWX7840
	7	FL SUPPLY Assy	AWX7871
	8	INPUT SEL Assy	AWX7868
	9	MULTI JOG Assy	AWX7869
	10	VOL Assy	AWX7870
	11	Front Panel	ANB7301
	12	Pioneer Badge B	PAN1376
	13	Rotary Knob L BK	AAA7018
	14	Plate	ANG7198
	15	Rotary Knob S BK	AAA7015
	16	Display Panel	AAK7932
	17	Panel Base L BK	AMB7788
	18	Panel Base R BK	AMB7791
	19	Power Button	AAD7440
	20	Power Button M	AAD7442
	21	Washer	ABF7008
NSP	22	VR Stabilizer	ANG7383
	23	Cord Holder	RNH-184
	24	Nut	NK90FCU
NSP	25	Earth Spring	ABK7031
	26	Door Panel BK	ANB7273
NSP	27	Door Cushion	AED7051
	28	Door Plate	AAH7077
	29	FL Lens I OR	AAK8069
	30	Inner Panel	AAH7087
	31	LED Lens	AAK7931
	32	• • • •	
	33	LED Lens	PNW2019
	34	Panel Base C BK	AMB7785
NSP	35	Door Hinge L	ANG7379
NSP	36	Door Hinge R	ANG7380
	37	Door Holder L	AMR7373
	38	Door Holder R	AMR7374
	39	Damper Assy	AXA7108
	40	Screw	ABA7074
	41	Magnet	AMF7004
NSP	42	Input Holder	ANG7384
NSP	43	Earth Spring	ABH7208
	44	Shield plate D	AMR7390
	45	Screw	BBZ30P100FZK
	46	Screw	BBZ30P080FCC
	47	Screw	ABA7053
	48	Screw	BBT30P060FCC
	49	Screw	ABA1050
	50	Screw	BBZ20P060FMC

Mark	No.	Description	Part No.
	51	Screw	ABA7076
	52	J33 FFC (3P) (DISPLAY CN3002-STANDBY CN1903)	ADD7331
	53	J35 FFC (4P) (SP(A) CN1206-HEADPHONE CN3203)	ADD7332
	54	J1101 Parallel Wire 3P (POWER SW CN1301-AC PRIMARY CN1105)	D20PYY0365E
	55	Fiber Washer	VEC1254
NSP	56	Earth Metal Fitting	DE007VC0
NSP	57	Earth Metal Fitting	DE012VF0
	58	J32 8P Connector Assy (Front A/V CN3204-MIC AMP CN3206)	ADX7390
	59	J99 4P Connector Assy (MIC & OPT CN3202-MIC AMP CN3205)	ADX7421
	60	J31 5P Connector Assy (MIC & OPT CN3201-Mother CN5804)	ADX7386
	61	J1801 4P Connector Assy (FL Supply CN1901-FUSE CN1803)	ADX7377
NSP	62	Panel spacer left L	AMR7411
NSP	63	Panel spacer left S	AMR7408
NSP	64	Panel spacer right L	AMR7412
NSP	65	Panel spacer right S	AMR7409
	66	Fiber washer	AEC7403

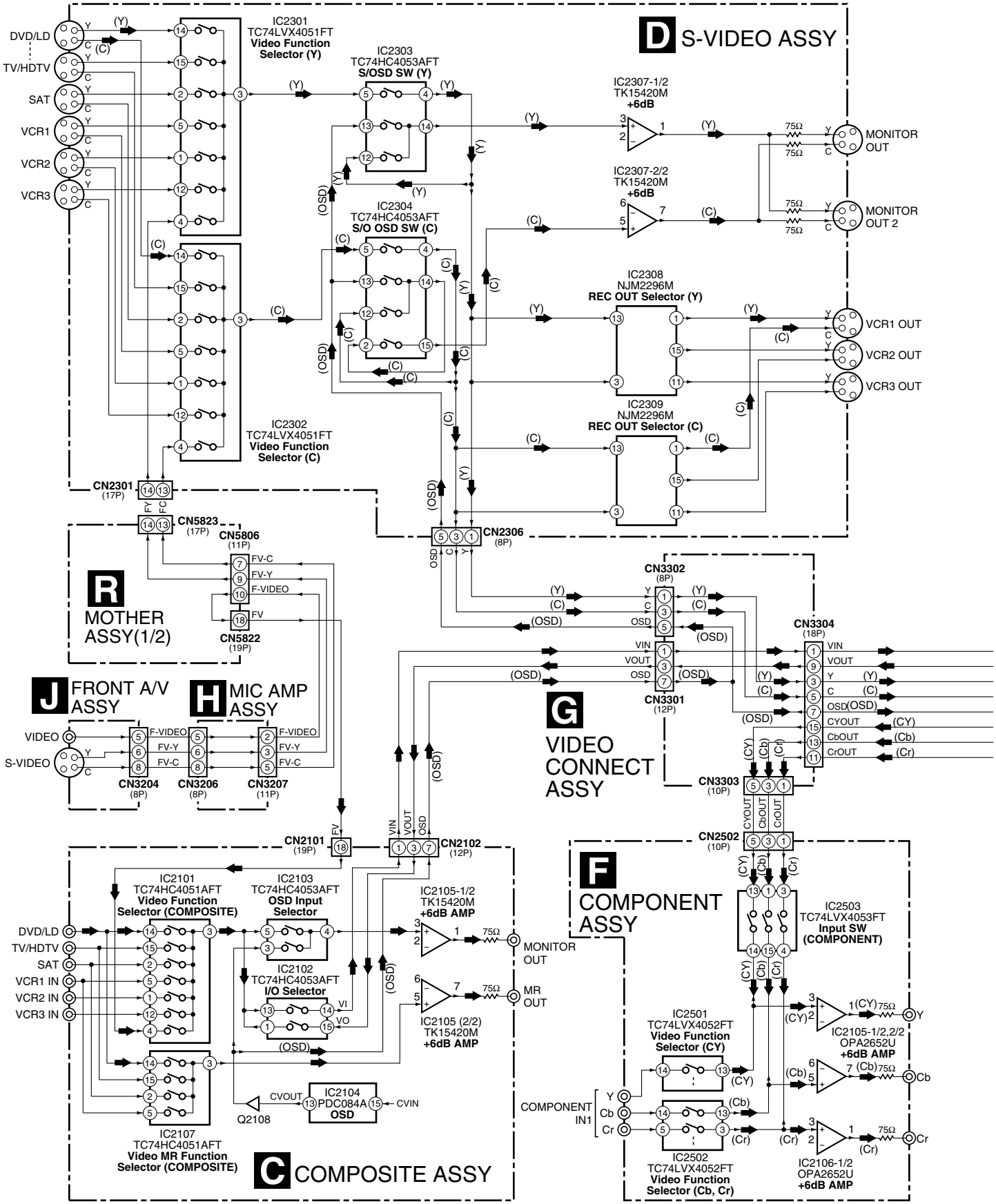
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

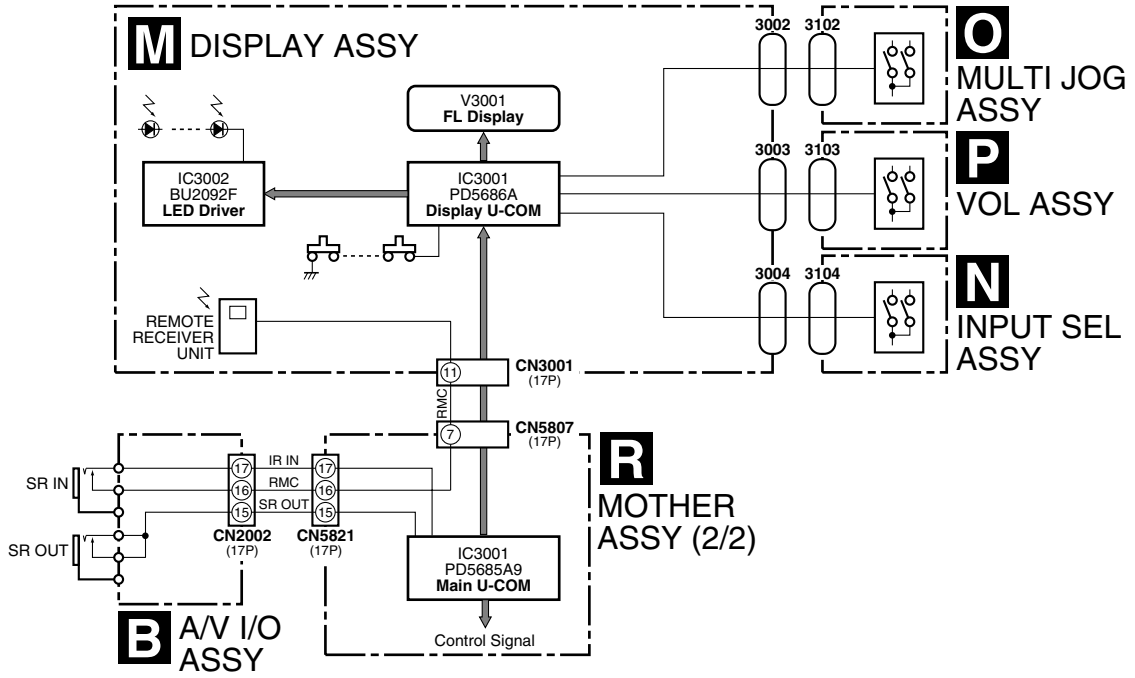



R MOTHER ASSY(5/5)
Q VR & PRE OUT ASSY
K HEADPHONE ASSY
V POWER AMP (L) ASSY
W POWER AMP (C) ASSY
X POWER AMP (R) ASSY
T DSP 3 ASSY
U DAC 10 ASSY
AJ SP (B) ASSY
CN5814 (20P)
CN5820 (17P)
CN5817 (9P)
CN5002 (9P)
CN5815 (17P)
CN5818 (30P)
CN5001 (30P)
CN5813 (17P)
CN5819 (24P)
CN5003 (24P)
VFUNCL
MR OUTL
RECL
MC C
MC SDL
EXFLIN
EXSBLIN
EXCIN
EXSLIN
SBLIN
SLIN
CIN
FLIN
SBLO
SLO
CTO
FLO
IC5043-1/2 UPC4570C
IC5083-1/2 UPC4570C
EXC IN
EXSBL IN
IC5181-1/2 NJM2068D
IC5181-2/2 NJM2068D
IC5001 TC9274N-016 Mode Selector
IC5023-1/2 NJM2068D
IC5023-2/2 NJM2068D
Front Main Volume IC5021 TC94A07F
Surround Back Main Volume IC5081 TC94A07F
L/SW Main Volume IC5041 TC94A07F
Surround Main Volume IC5061 TC94A07F
Pre-Amp IC5022-1/2 OPA2134PA
Pre-Amp IC5082-1/2 OPA2134PA
Pre-Amp IC5042-1/2 OPA2134PA
Pre-Amp IC5062-1/2 OPA2134PA
L FRONT L
SB L
PREOUT CENTER1
SURROUND L
IC5084-2/2 BU4052BCF Surround Back Selector
CN5006 (14P)
CN3203 (4P)
PHONES
Voltage Amp IC4101 PA9008A
Current Amp IC4102,IC4103 PBD001A
IC4401 PA9008A
IC4402,IC4403 PBD001A
IC4601 PA9008A
IC4602,IC4603 PBD001A
CN4801 (8P)
J4801
FLO
CO
SLO
SBLO
CN1203
CN1206 (4P)
CN1201
RY1201
RY1202
RY1203
RY1204
SPA
FL
FR
SPC
SL
SR
SBL
SBR
CN1202
J1206
HPL
FBL
CN1007
RY1003
SPB
CN1006
CN4805 (15P)
CN4807 (15P)
IC4301 PA9008A Voltage Amp
IC4302 PBD001A Current Amp
CN4806
CN4808
IC4303 PBD002A Current Amp
ORG
CN501
DSP 3
Front Digital Filter IC6021 DF1706E
D/A Converter IC6101 PCM1704U-1
IC6103 NJM5534DD
IC6105-2/2 NJM2068D
IC6105-1/2 NJM2068D
CN6002
CN6004 (17P)
Same as the above circuit.
(F) : Audio Signal Route (F)
(C) : Audio Signal Route (C)
(S) : Audio Signal Route (S)
(SB) : Audio Signal Route (SB)
(SBL) : Audio Signal Route (SBL)
(MR) : Audio Signal Route (MR)
(REC) : Audio Signal Route (REC)

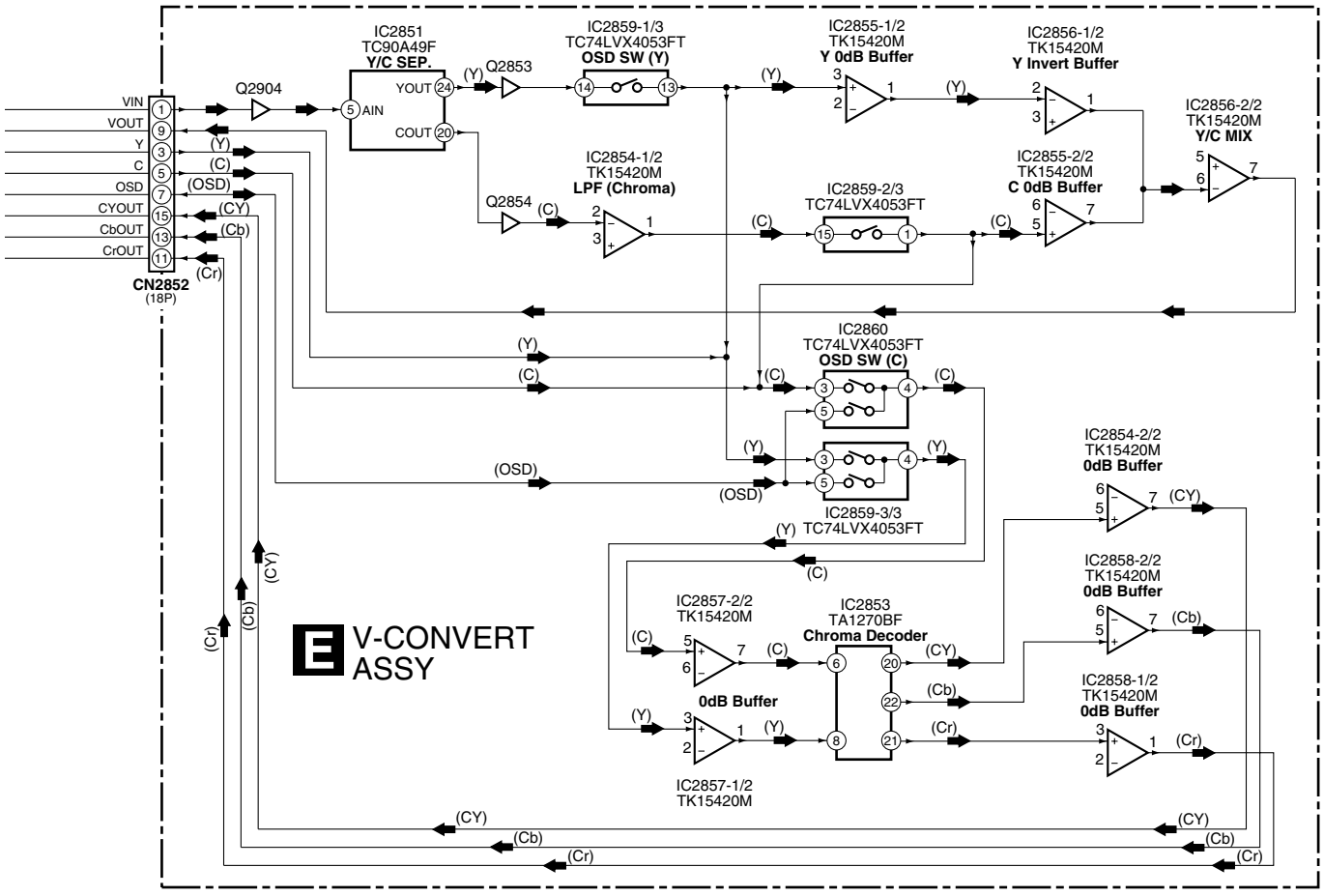
• Video Block


D S-VIDEO ASSY
DVD/LD
TV/HDTV
SAT
VCR1
VCR2
VCR3
IC2301
TC74LVX4051FT
Video Function Selector (Y)
IC2303
TC74HC4053AFT
S/OSD SW (Y)
IC2304
TC74HC4053AFT
S/O OSD SW (C)
IC2302
TC74LVX4051FT
Video Function Selector (C)
IC2307-1/2
TK15420M
+6dB
IC2307-2/2
TK15420M
+6dB
MONITOR OUT
MONITOR OUT 2
IC2308
NJM2296M
REC OUT Selector (Y)
IC2309
NJM2296M
REC OUT Selector (C)
VCR1 OUT
VCR2 OUT
VCR3 OUT
CN2301 (17P)
CN5823 (17P)
CN2306 (8P)
CN5806 (11P)
CN5822 (19P)
R MOTHER ASSY(1/2)
CN3302 (8P)
CN3304 (18P)
CN3301 (12P)
CN3303 (10P)
G VIDEO CONNECT ASSY
J FRONT A/V ASSY
H MIC AMP ASSY
VIDEO
S-VIDEO
CN3204 (8P)
CN3206 (8P)
CN3207 (11P)
CN2101 (19P)
CN2102 (12P)
CN2502 (10P)
IC2101
TC74HC4051AFT
Video Function Selector (COMPOSITE)
IC2103
TC74HC4053AFT
OSD Input Selector
IC2102
TC74HC4053AFT
I/O Selector
IC2105-1/2
TK15420M
+6dB AMP
IC2105 (2/2)
TK15420M
+6dB AMP
MONITOR OUT
MR OUT
IC2104
PDC084A
OSD
Q2108
IC2107
TC74HC4051AFT
Video MR Function Selector (COMPOSITE)
C COMPOSITE ASSY
F COMPONENT ASSY
IC2503
TC74LVX4053FT
Input SW (COMPONENT)
IC2501
TC74LVX4052FT
Video Function Selector (CY)
IC2502
TC74LVX4052FT
Video Function Selector (Cb, Cr)
IC2105-1/2,2/2
OPA2652U
+6dB AMP
IC2106-1/2
OPA2652U
+6dB AMP
COMPONENT IN1

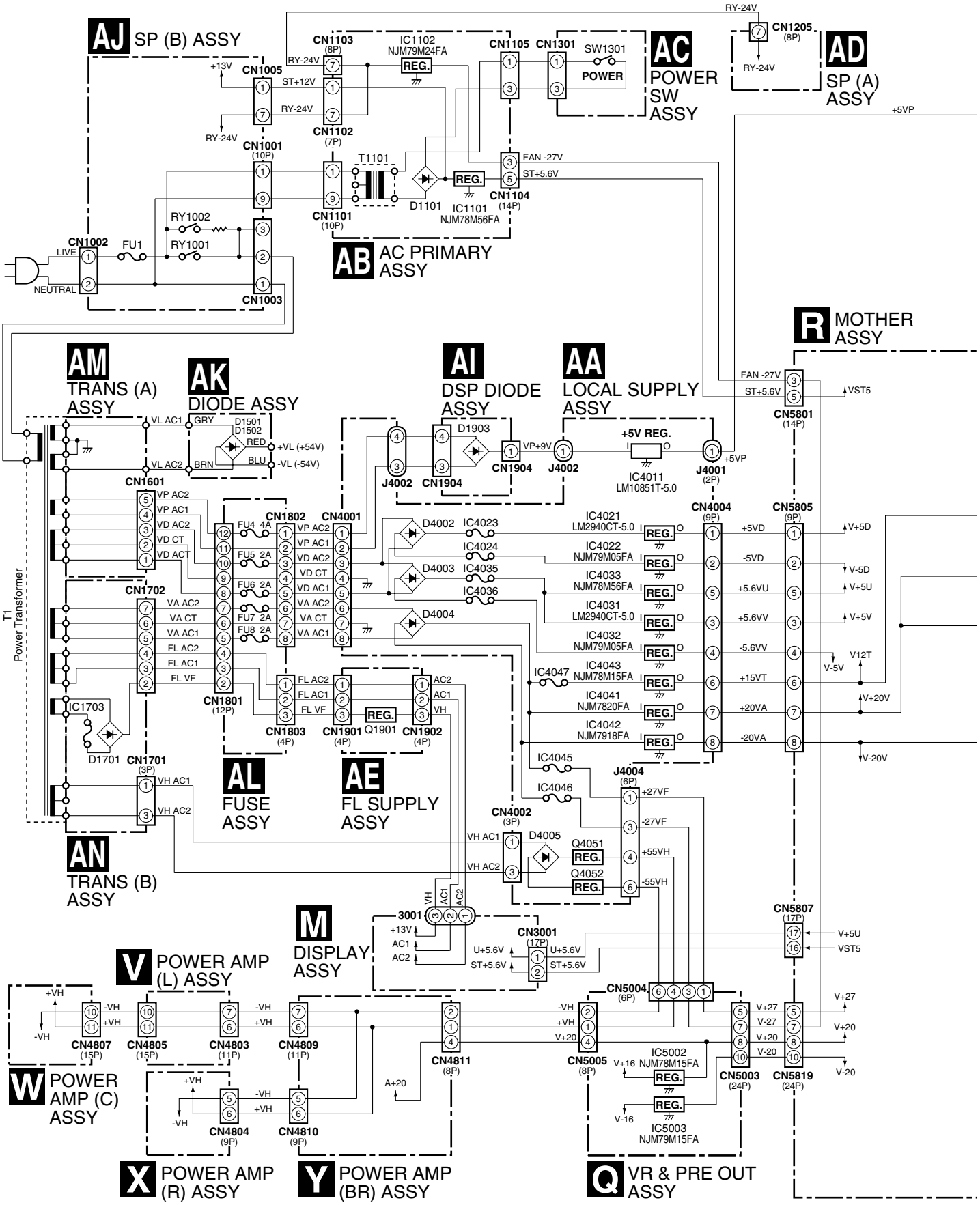
• Display Block

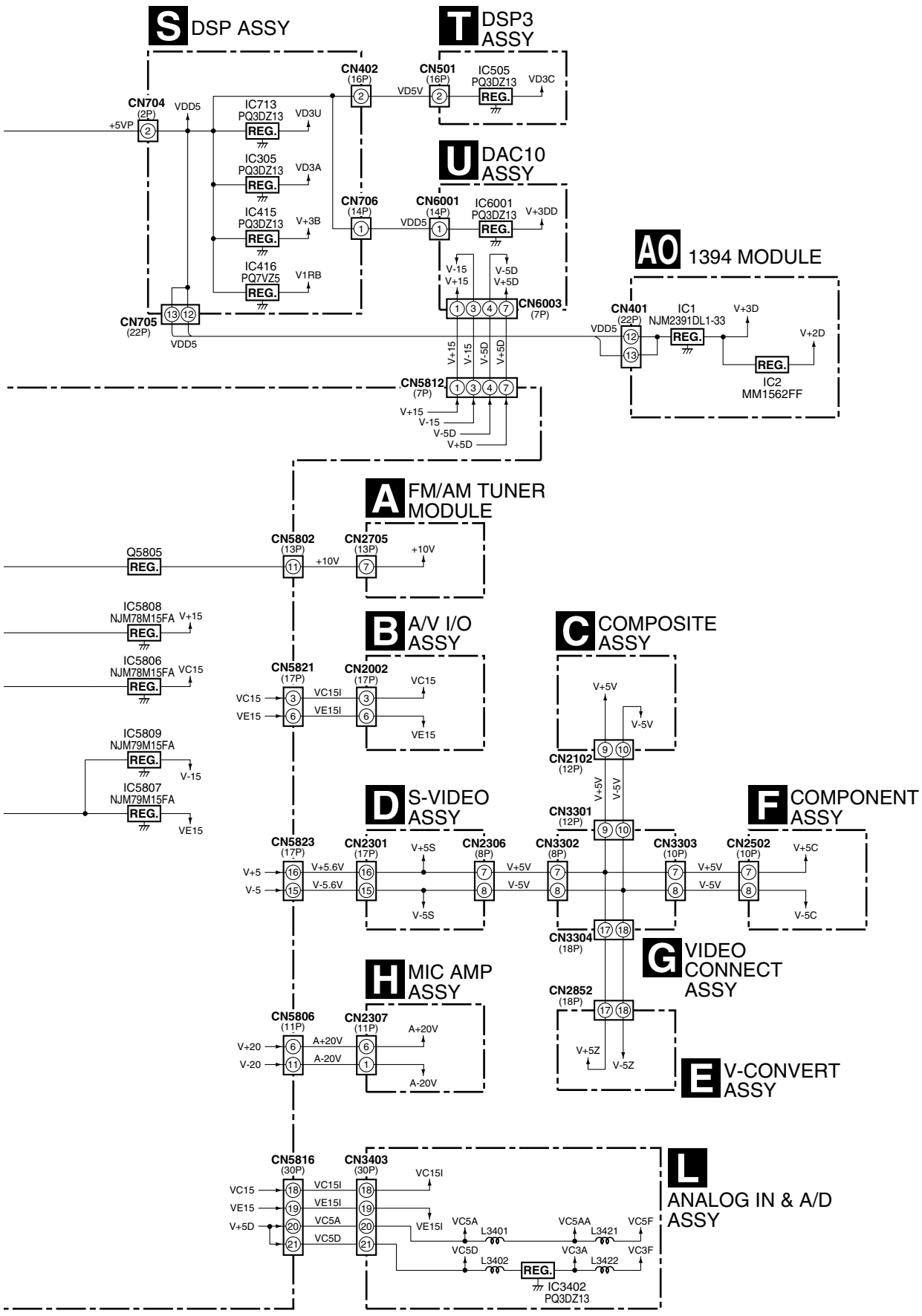


: VIDEO SIGNAL ROUTE
(Y) : VIDEO SIGNAL ROUTE (Y)
(C) : VIDEO SIGNAL ROUTE (C)
(CY) : Y SIGNAL ROUTE (COMPONENT)
(Cb) : Cb SIGNAL ROUTE (COMPONENT)
(Cr) : Cr SIGNAL ROUTE (COMPONENT)
(OSD) : VIDEO SIGNAL ROUTE (OSD)

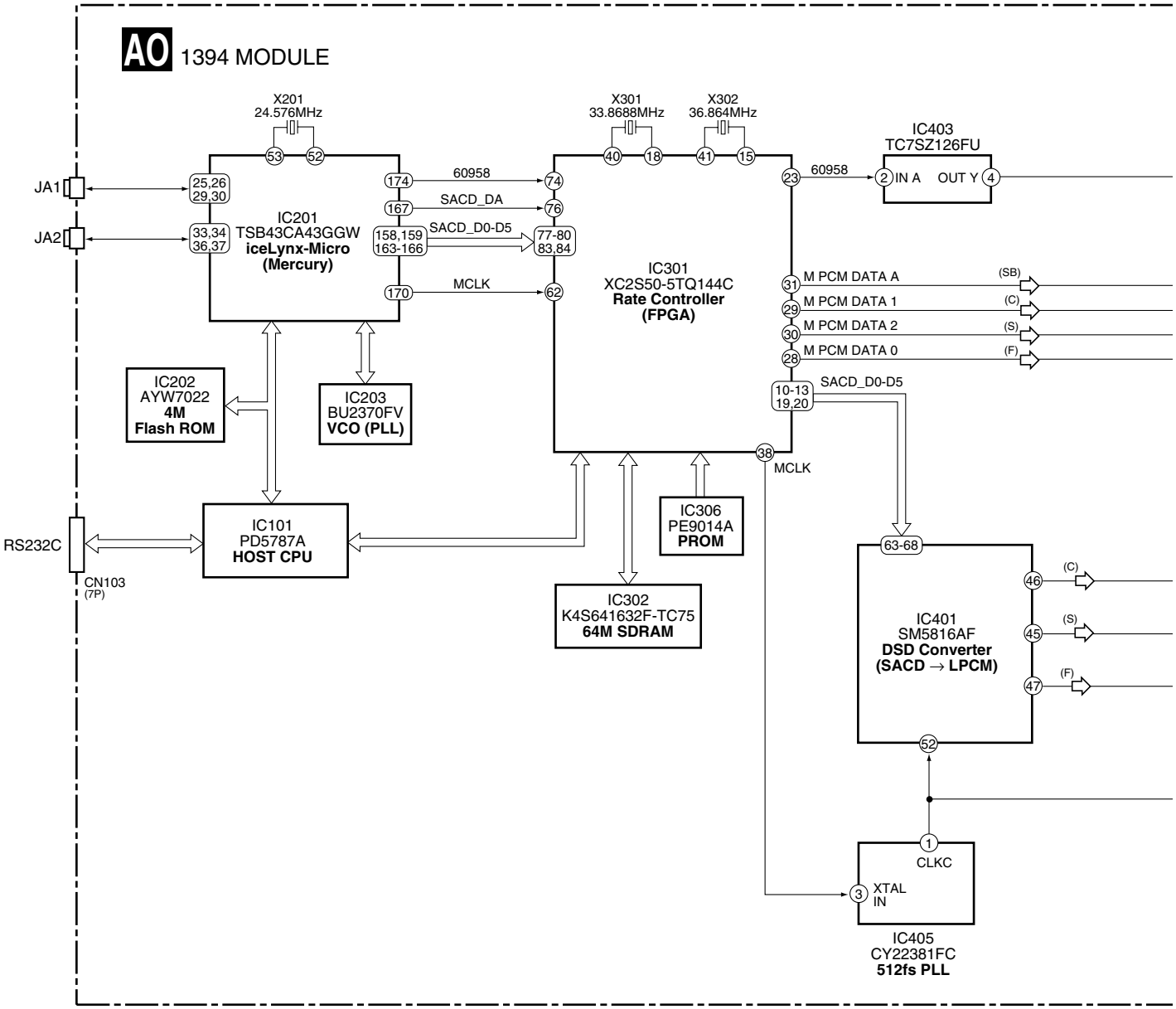


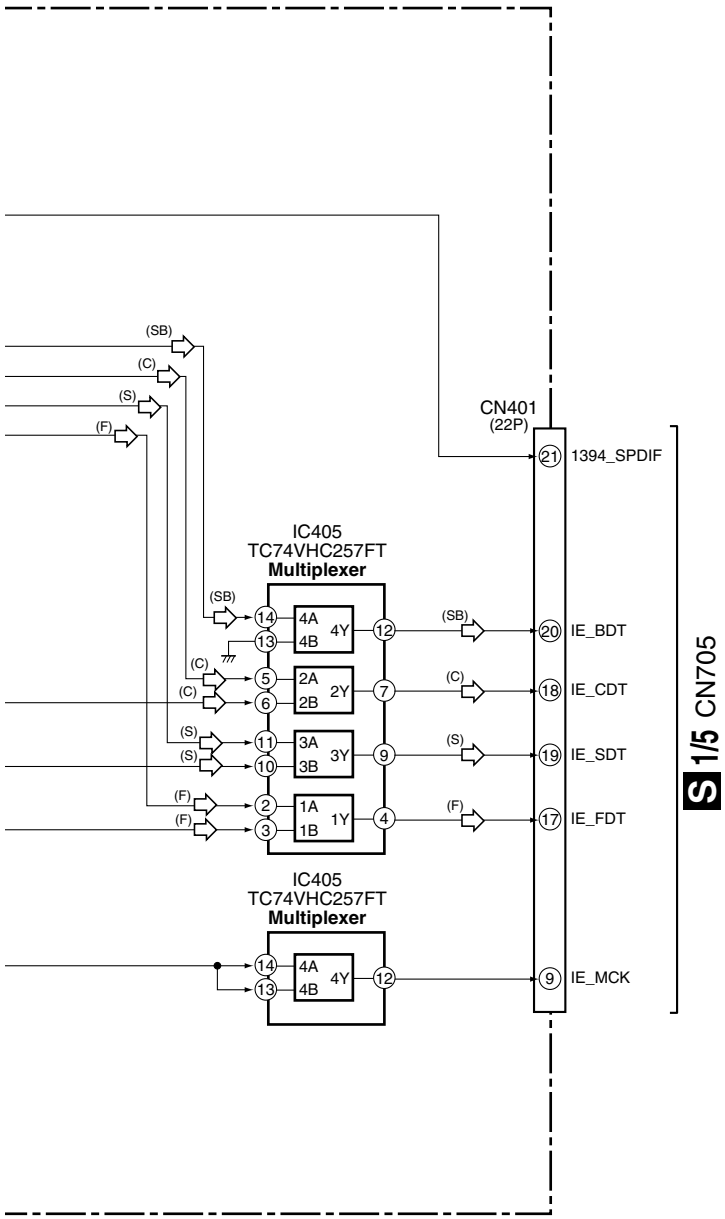
• Power Supply Block




S DSP ASSY
T DSP3 ASSY
U DAC10 ASSY
AO 1394 MODULE
A FM/AM TUNER MODULE
B A/V I/O ASSY
C COMPOSITE ASSY
D S-VIDEO ASSY
F COMPONENT ASSY
G VIDEO CONNECT ASSY
H MIC AMP ASSY
E V-CONVERT ASSY
L ANALOG IN & A/D ASSY
CN704 (2P)
CN705 (22P)
CN706 (14P)
CN402 (16P)
CN501 (16P)
CN6001 (14P)
CN6003 (7P)
CN5812 (7P)
CN401 (22P)
CN5802 (13P)
CN2705 (13P)
CN5821 (17P)
CN2002 (17P)
CN2102 (12P)
CN3301 (12P)
CN5823 (17P)
CN2301 (17P)
CN2306 (8P)
CN3302 (8P)
CN3303 (10P)
CN2502 (10P)
CN3304 (18P)
CN2852 (18P)
CN5806 (11P)
CN2307 (11P)
CN5816 (30P)
CN3403 (30P)
IC713 PQ3DZ13
IC305 PQ3DZ13
IC415 PQ3DZ13
IC416 PQ7VZ5
IC505 PQ3DZ13
IC6001 PQ3DZ13
IC1 NJM2391DL1-33
IC2 MM1562FF
IC5808 NJM78M15FA
IC5806 NJM78M15FA
IC5809 NJM79M15FA
IC5807 NJM79M15FA
IC3402 PQ3DZ13
Q5805
REG.
+5VP
VDD5
VD3U
VD3A
V+3B
V1RB
VD5V
VD3C
V+3DD
V-15
V+15
V-5D
V+5D
V+3D
V+2D
+10V
VC15
VE15
VC15I
VE15I
V+5V
V-5V
V+5S
V-5S
V+5.6V
V-5.6V
V+5C
V-5C
A+20V
A-20V
V+20
V-20
V+5Z
V-5Z
VC5A
VC5D
VC5AA
VC3A
VC5F
VC3F
L3401
L3402
L3421
L3422

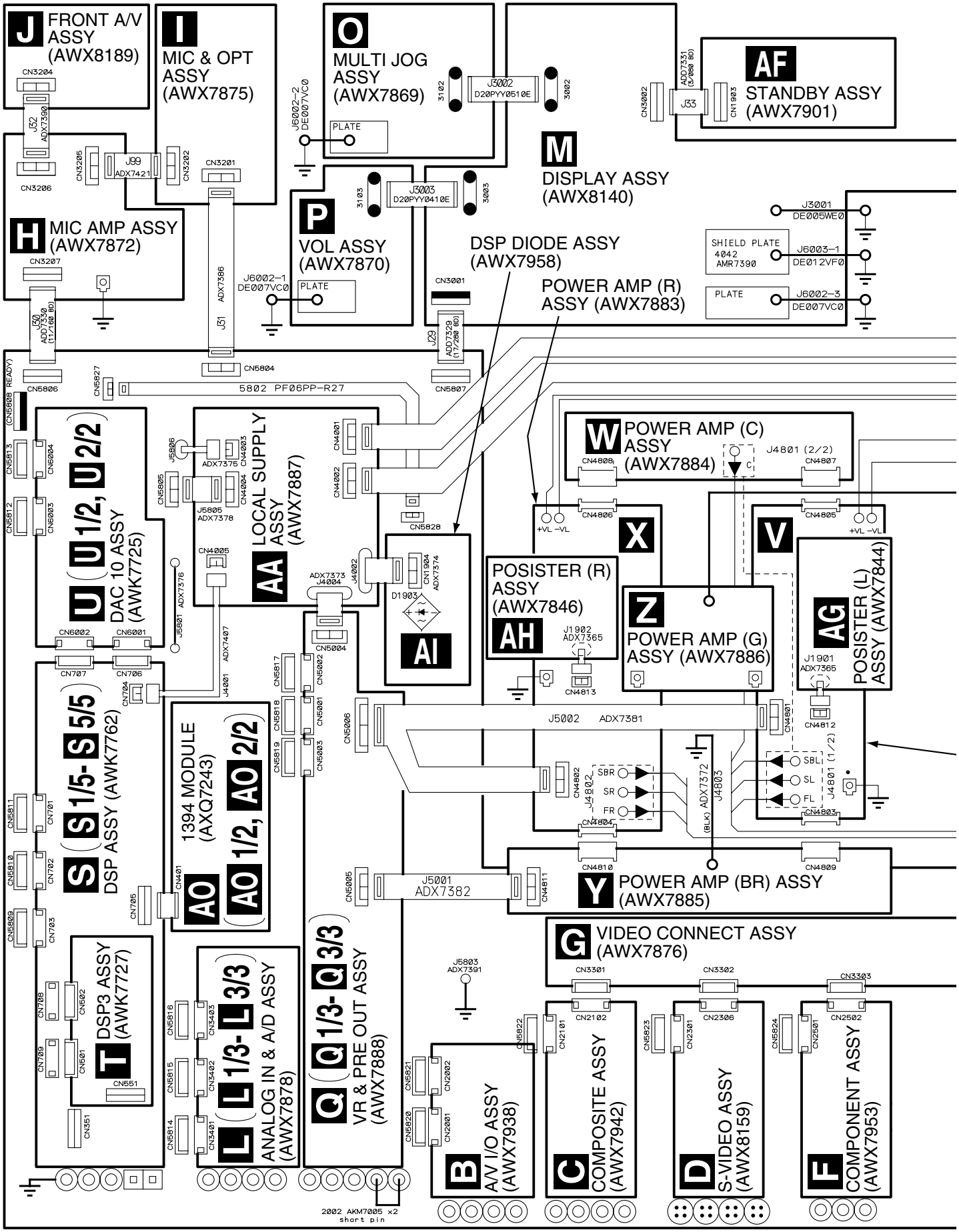
● 1394 MODULE Block



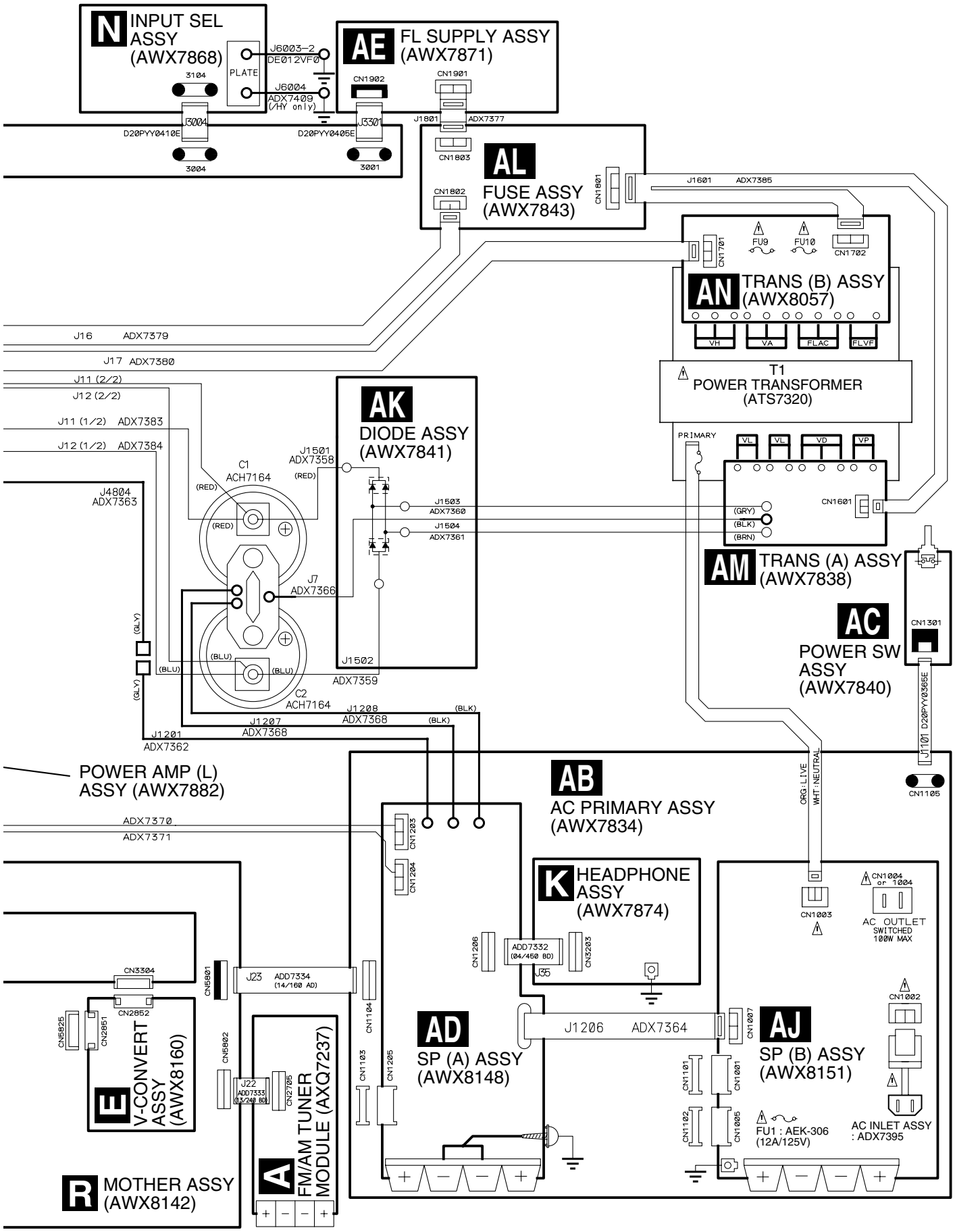


(F) : Audio Signal Route (F)
(C) : Audio Signal Route (C)
(S) : Audio Signal Route (S)
(SB) : Audio Signal Route (SB)

3.2 OVERALL WIRING DIAGRAM

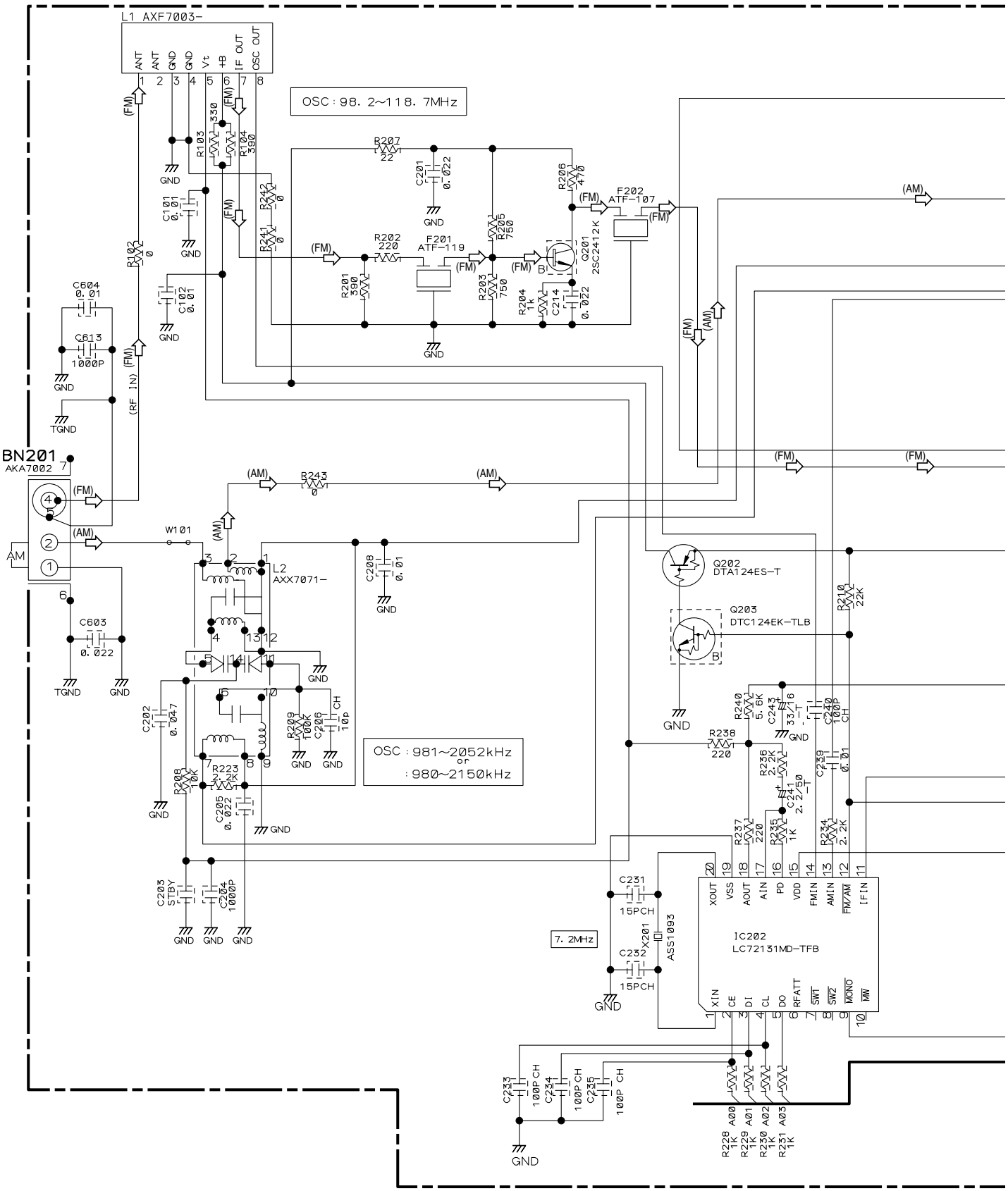

J FRONT A/V ASSY (AWX8189)
I MIC & OPT ASSY (AWX7875)
O MULTI JOG ASSY (AWX7869)
AF STANDBY ASSY (AWX7901)
M DISPLAY ASSY (AWX8140)
H MIC AMP ASSY (AWX7872)
P VOL ASSY (AWX7870)
DSP DIODE ASSY (AWX7958)
POWER AMP (R) ASSY (AWX7883)
W POWER AMP (C) ASSY (AWX7884)
X
V
Z POWER AMP (G) ASSY (AWX7886)
AG POSISTER (L) ASSY (AWX7844)
POSISTER (R) ASSY (AWX7846)
AH
AA LOCAL SUPPLY ASSY (AWX7887)
AI
U U 1/2, U 2/2 DAC 10 ASSY (AWK7725)
S S 1/5- S 5/5 DSP ASSY (AWK7762)
1394 MODULE (AXQ7243)
AO AO 1/2, AO 2/2
T DSP3 ASSY (AWK7727)
L L 1/3- L 3/3 ANALOG IN & A/D ASSY (AWX7878)
Q Q 1/3- Q 3/3 VR & PRE OUT ASSY (AWX7888)
Y POWER AMP (BR) ASSY (AWX7885)
G VIDEO CONNECT ASSY (AWX7876)
B A/V I/O ASSY (AWX7938)
C COMPOSITE ASSY (AWX7942)
D S-VIDEO ASSY (AWX8159)
F COMPONENT ASSY (AWX7953)
PLATE
SHIELD PLATE 4042 AMR7390
5802 PF06PP-R27
J5002 ADX7381
J5001 ADX7382
J5003 ADX7391
2002 AKM7005 x2 short pin

Note: When ordering service parts, be sure to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

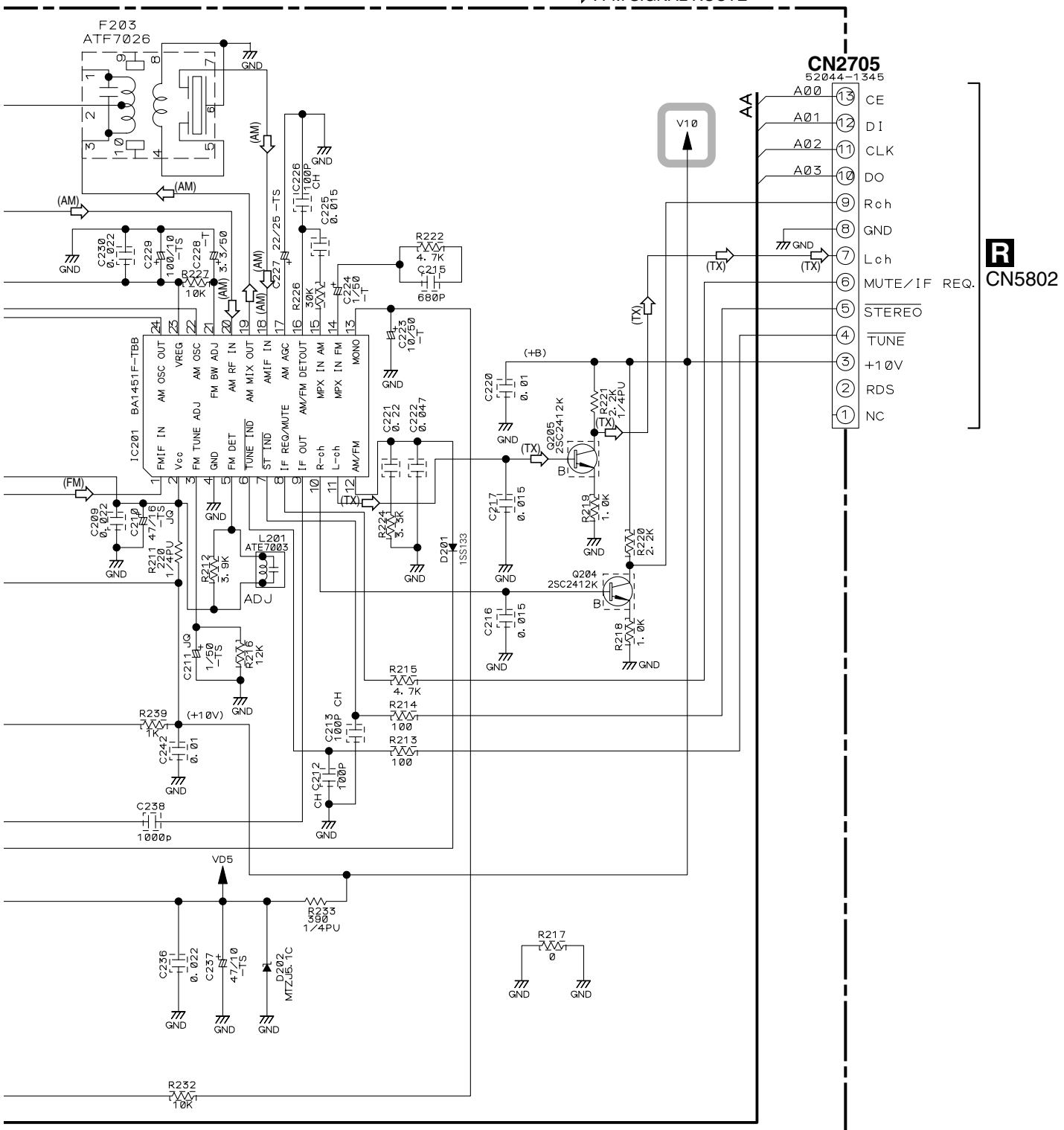


3.3 FM/AM TUNER MODULE

A FM/AM TUNER MODULE (AXQ7237)



(TX) : AUDIO SIGNAL ROUTE (TUNER)
(AM) : AM SIGNAL ROUTE
(FM) : FM SIGNAL ROUTE



Notes

1. RESISTORS
Indicated in Ω, 1/16W±5% Tolerance unless otherwise noted K:KΩ, M:MΩ.

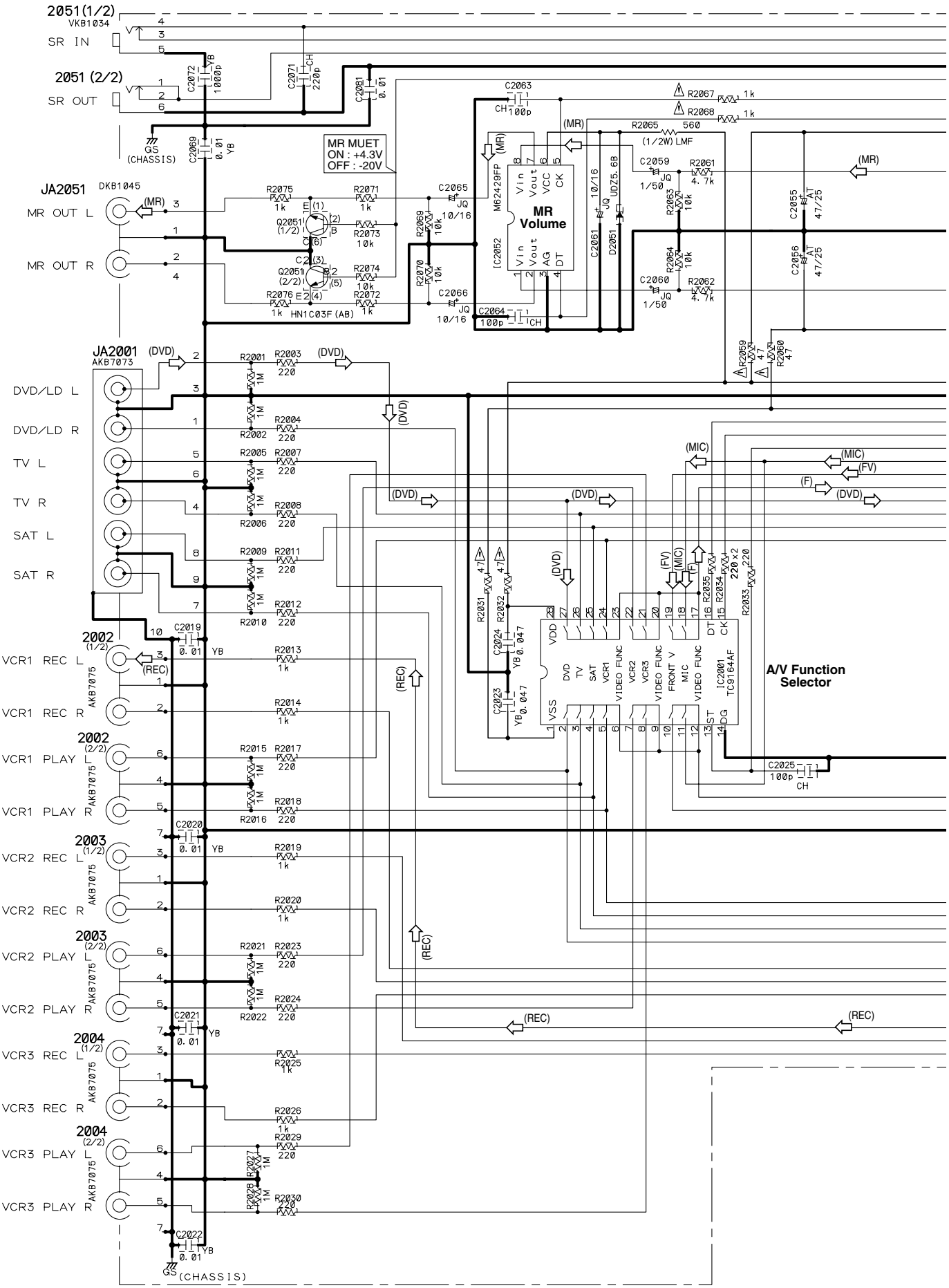
2. CAPACITORS
Indicated in Capacity(μF)/VOLTAGE(V) unless otherwise noted P:PF.

3. DIODES
No mark diode is 1SS133.

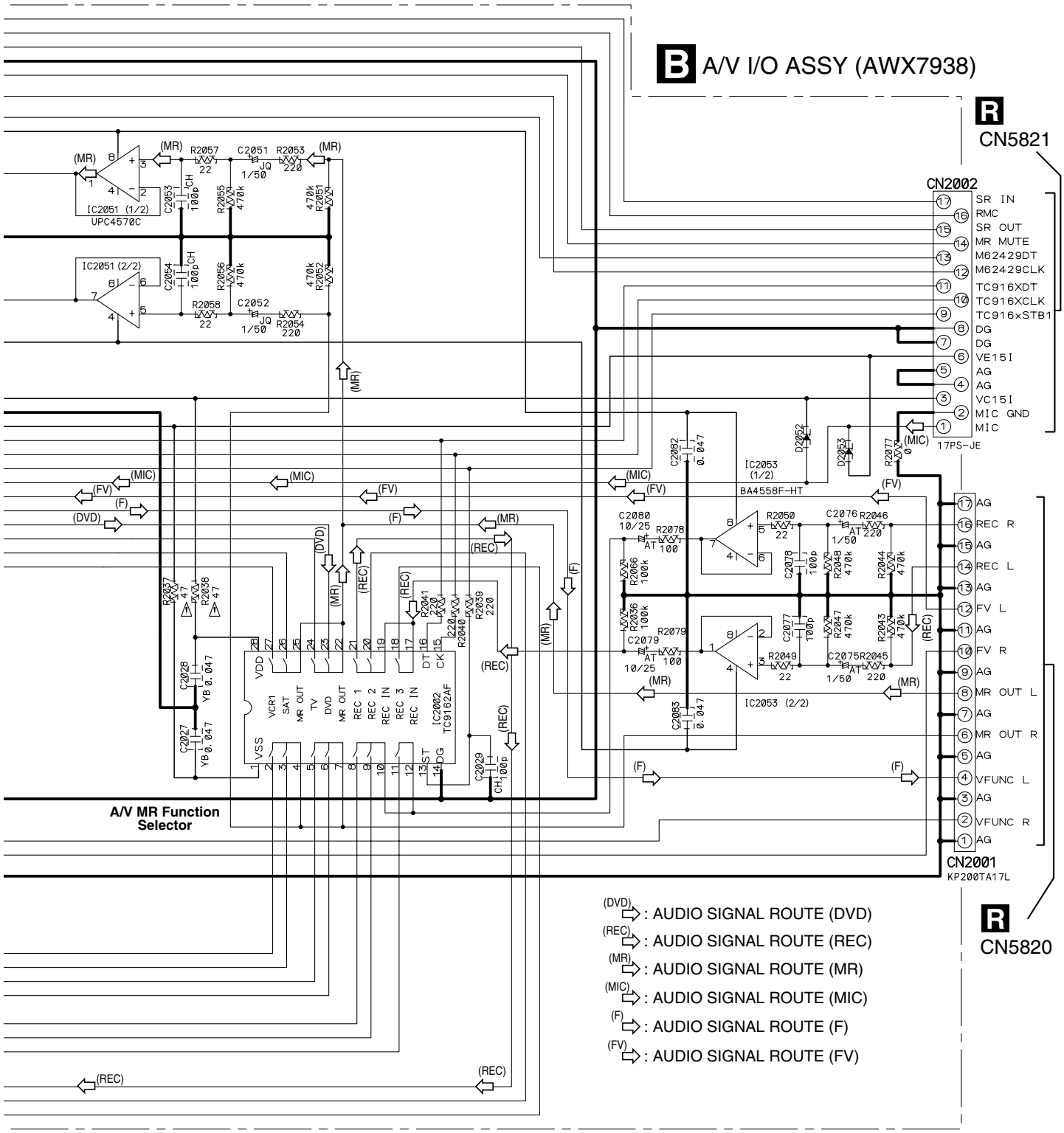
: The power supply is shown with the marked box.

A

3.4 A/V I/O ASSY


2051(1/2)
VKB1034
SR IN
2051 (2/2)
SR OUT
GS
(CHASSIS)
MR MUET
ON : +4.3V
OFF : -20V
JA2051 DKB1045
MR OUT L
MR OUT R
MR Volume
M62429FP
IC2052
HN1C03F (AB)
JA2001 AKB7073
DVD/LD L
DVD/LD R
TV L
TV R
SAT L
SAT R
2002 (1/2)
VCR1 REC L
VCR1 REC R
2002 (2/2)
VCR1 PLAY L
VCR1 PLAY R
2003 (1/2)
VCR2 REC L
VCR2 REC R
2003 (2/2)
VCR2 PLAY L
VCR2 PLAY R
2004 (1/2)
VCR3 REC L
VCR3 REC R
2004 (2/2)
VCR3 PLAY L
VCR3 PLAY R
AKB7075
A/V Function Selector
IC2001 TC9164AF
(DVD)
(MR)
(REC)
(MIC)
(FV)
(F)

B A/V I/O ASSY (AWX7938)



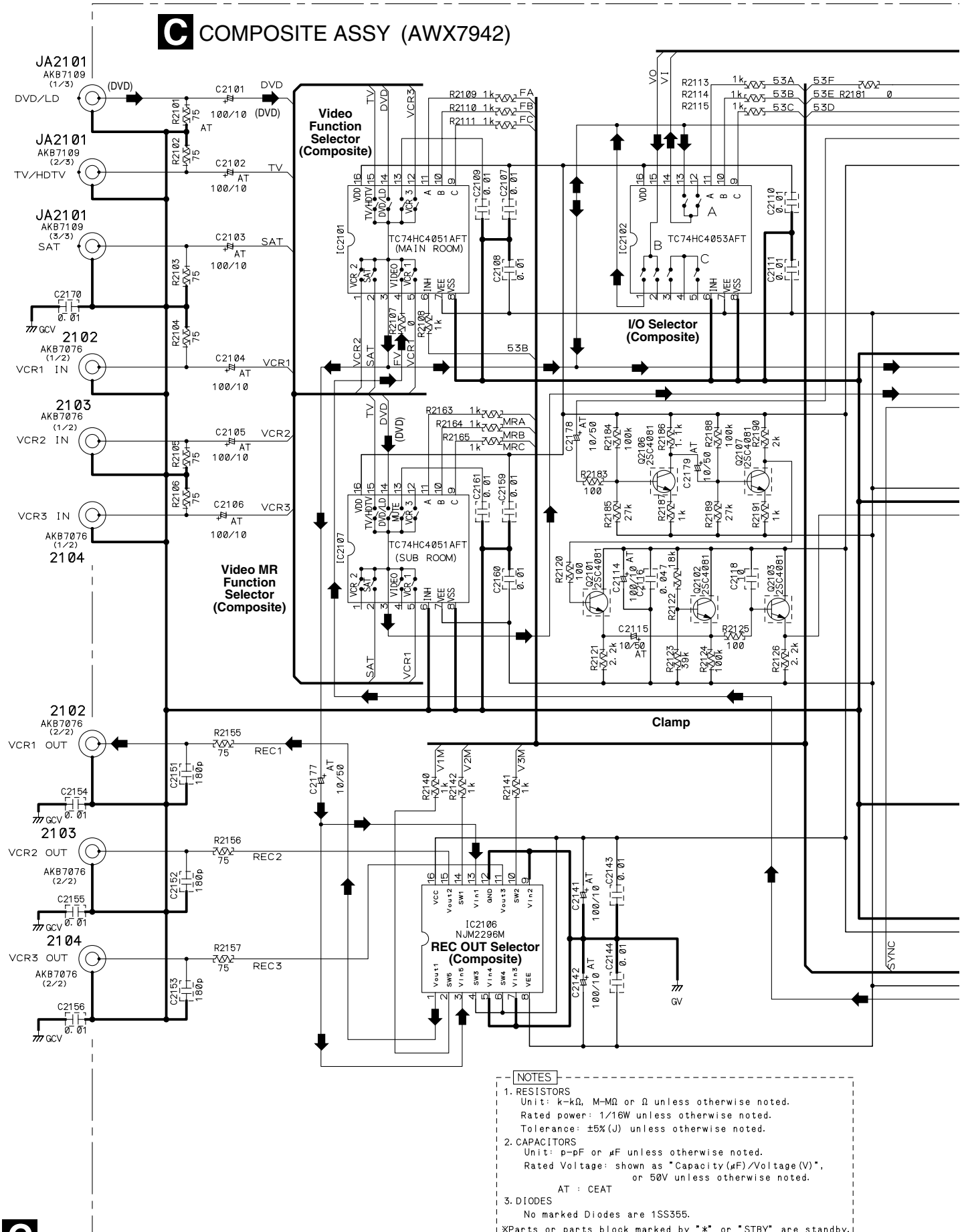
NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
3. DIODES
   No marked Diodes are 1SS355.

※Parts or parts block marked by "*" or "STBY" are standby.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

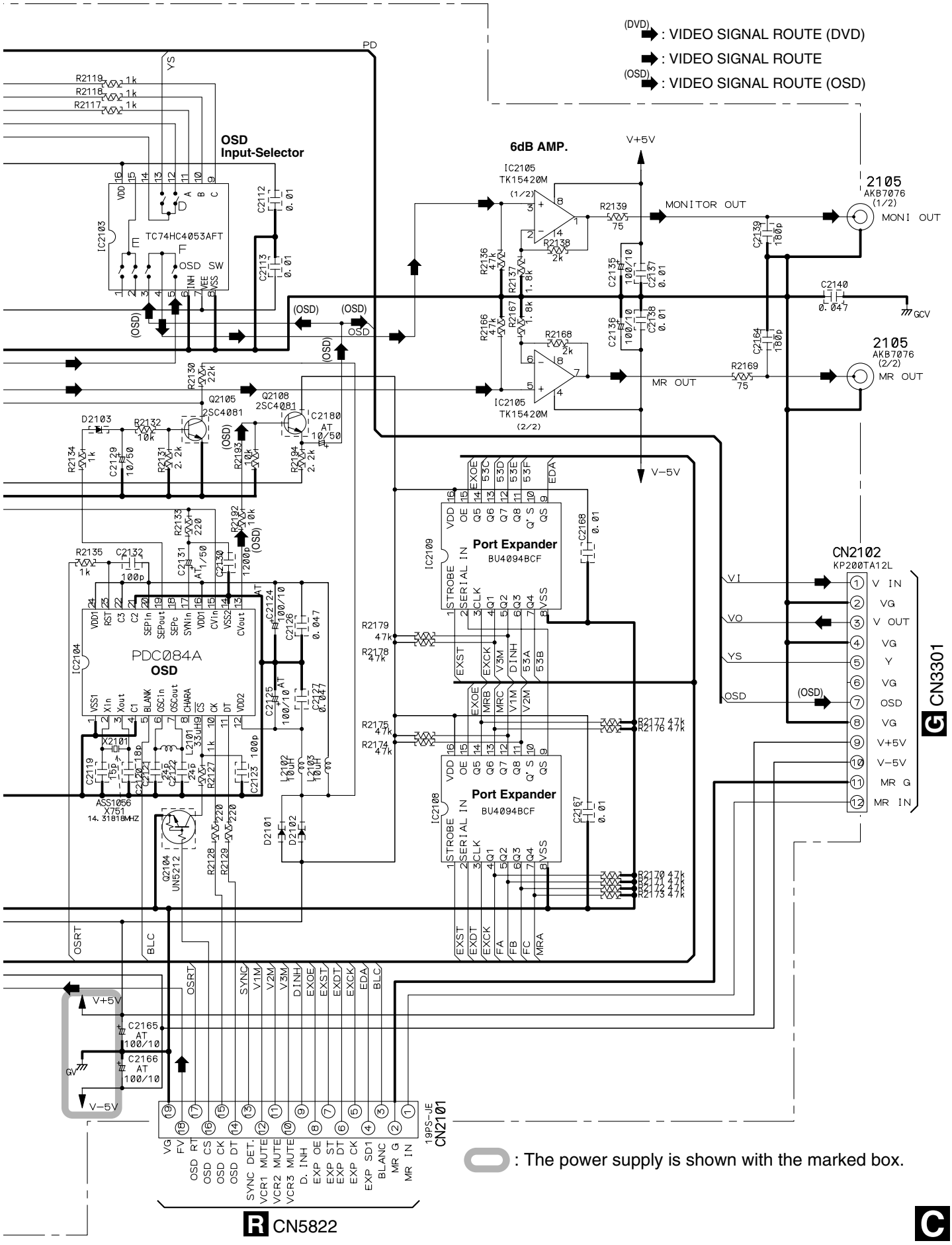
3.5 COMPOSITE ASSY



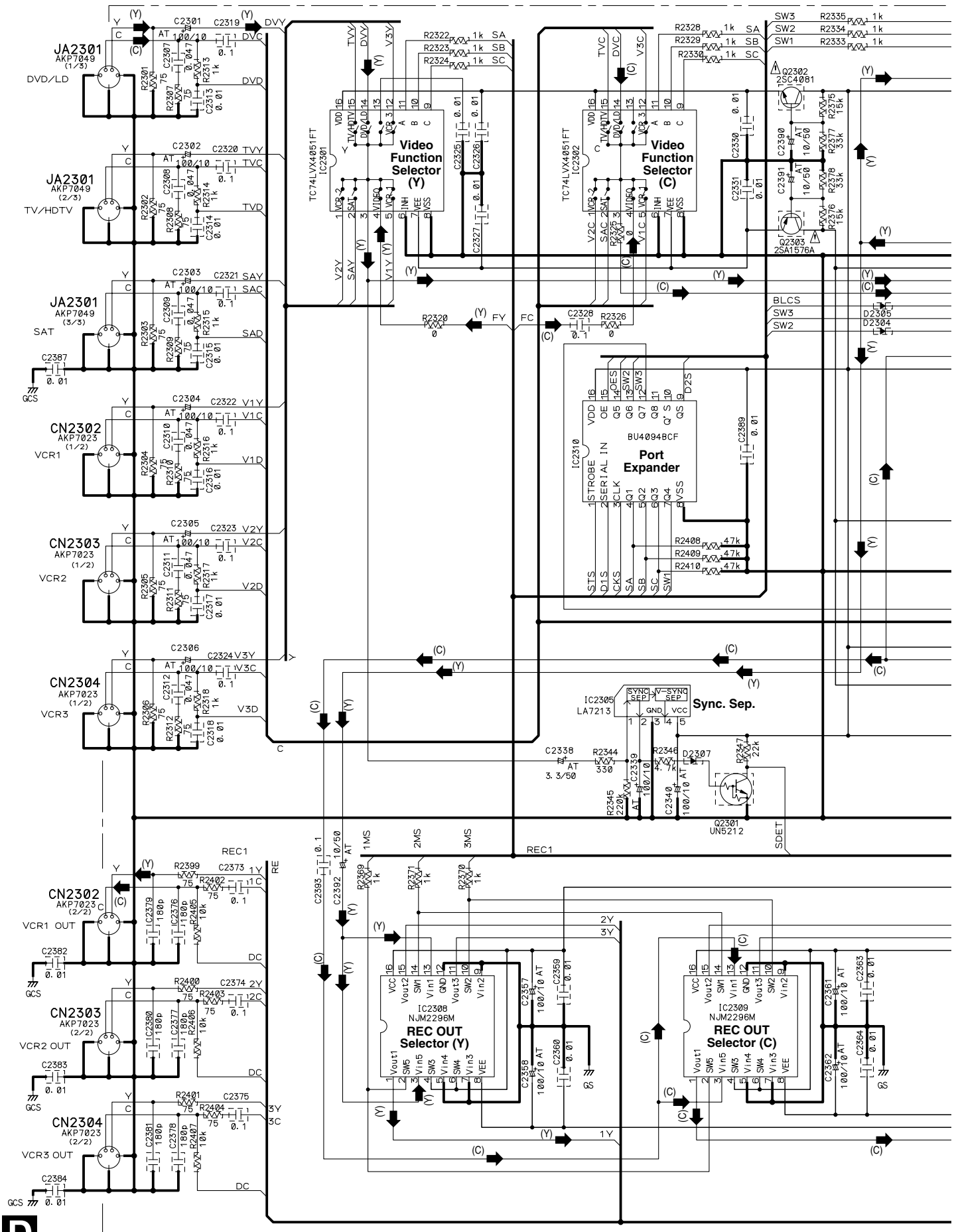
NOTES

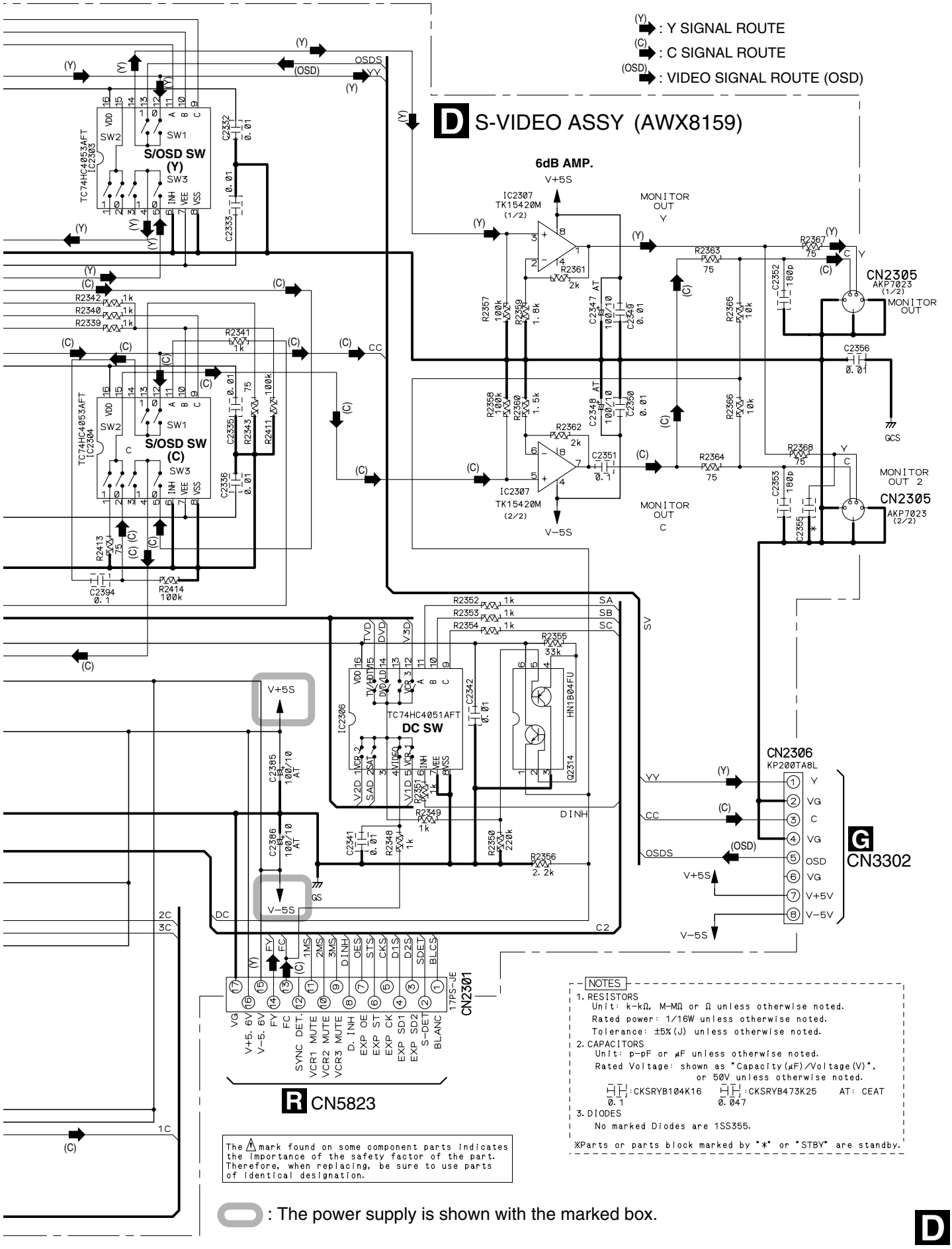
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   AT : CEAT
3. DIODES
   No marked Diodes are 1SS355.

※Parts or parts block marked by "*" or "STBY" are standby.

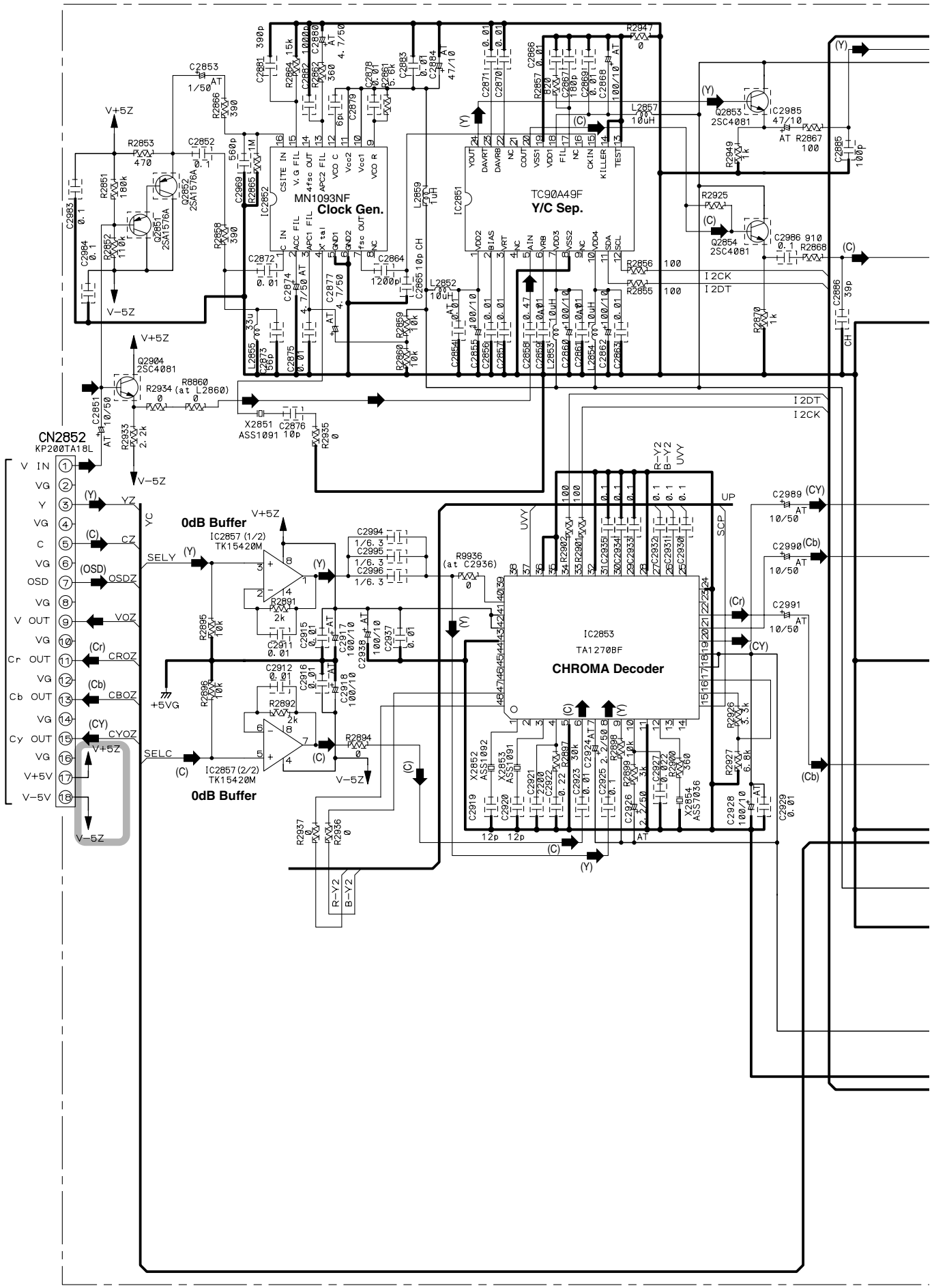

(DVD) : VIDEO SIGNAL ROUTE (DVD)
: VIDEO SIGNAL ROUTE
(OSD) : VIDEO SIGNAL ROUTE (OSD)
OSD Input-Selector
6dB AMP.
Port Expander
BU4094BCF
PDC084A
OSD
TC74HC4053AFT
OSD SW
MONITOR OUT
MR OUT
MONI OUT
CN2102
KP200TA12L
V IN
VG
V OUT
VG
Y
VG
OSD
VG
V+5V
V-5V
MR G
MR IN
CN3301
CN2101
CN5822
: The power supply is shown with the marked box.

3.6 S-VIDEO ASSY

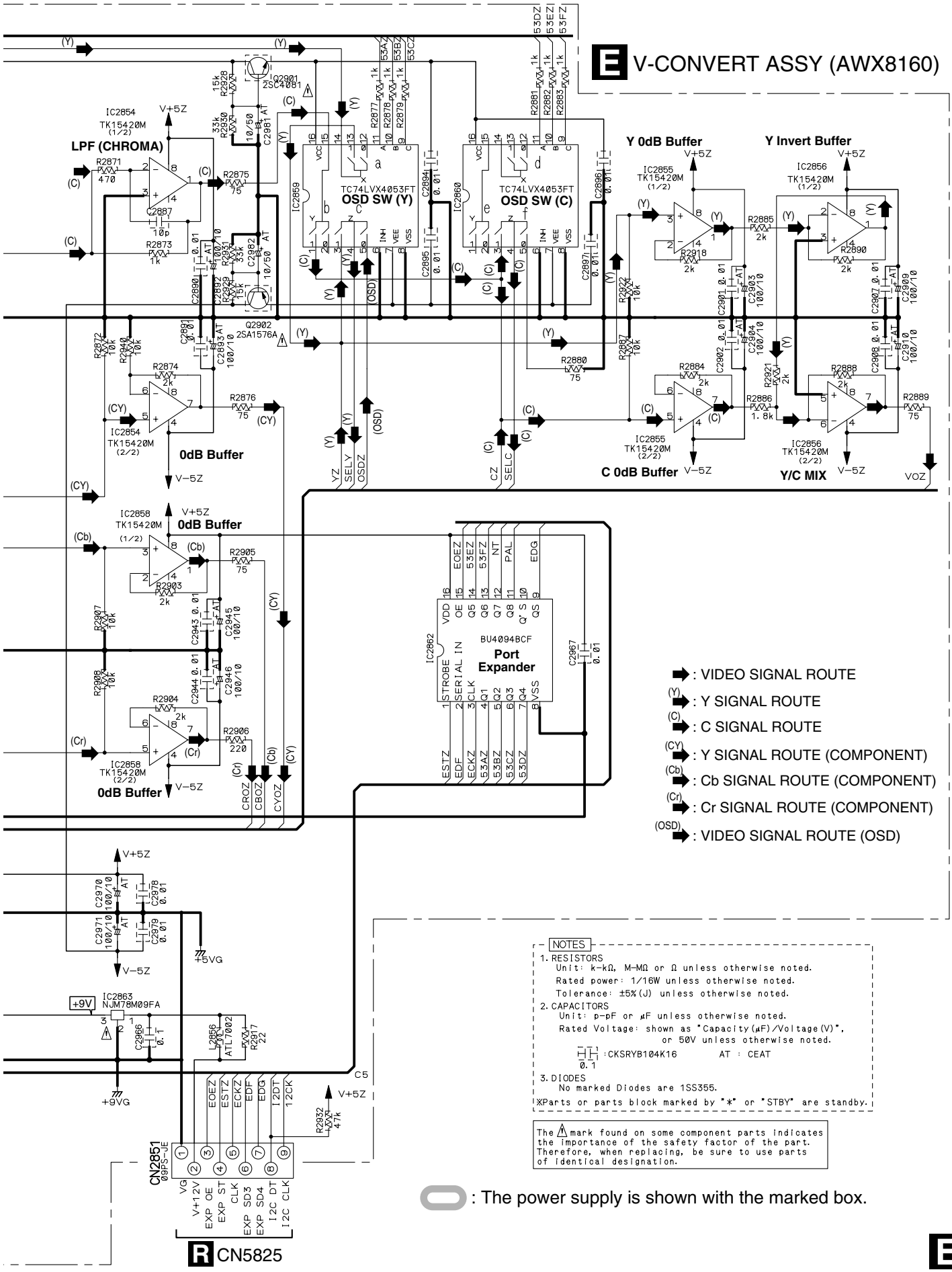



(Y) : Y SIGNAL ROUTE
(C) : C SIGNAL ROUTE
(OSD) : VIDEO SIGNAL ROUTE (OSD)
D S-VIDEO ASSY (AWX8159)
6dB AMP.
S/OSD SW (Y)
S/OSD SW (C)
DC SW
TC74HC4053AFT
TC74HC4051AFT
IC2307 TK15420M (1/2)
IC2307 TK15420M (2/2)
MONITOR OUT Y
MONITOR OUT C
MONITOR OUT 2
CN2305 AKP7023 (1/2)
CN2305 AKP7023 (2/2)
CN2306 KP200TA6L
G CN3302
R CN5823
CN2301
V+5S
V−5S
GCS
GS
DINH
NOTES
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
0.1 :CKSRYB104K16 0.047 :CKSRYB473K25 AT: CEAT
3. DIODES
No marked Diodes are 1SS355.
※Parts or parts block marked by "*" or "STBY" are standby.
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
: The power supply is shown with the marked box.

3.7 V-CONVERT ASSY



E V-CONVERT ASSY (AWX8160)



NOTES

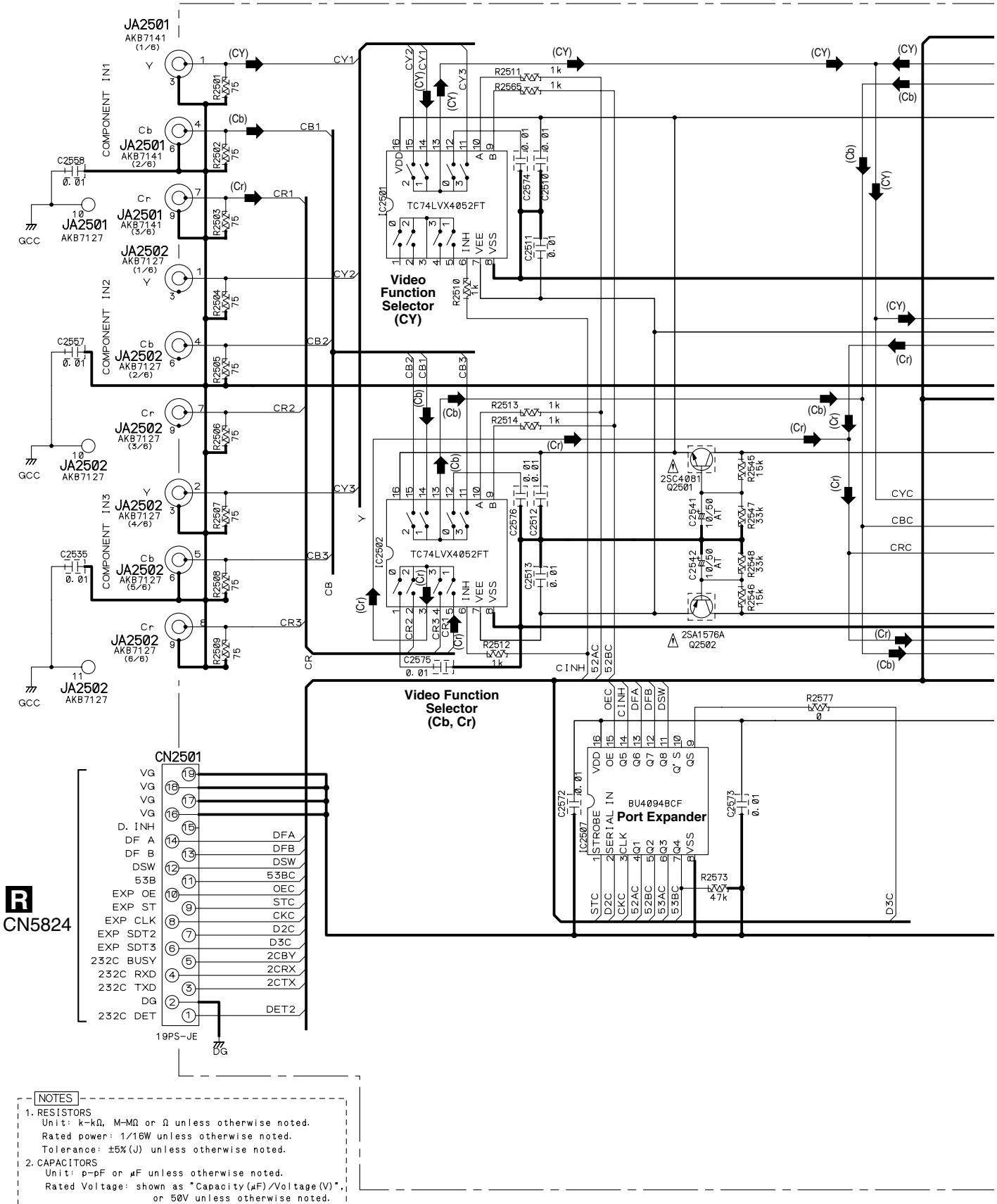
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   0.1 :CKSRYB104K16 AT : CEAT
3. DIODES
   No marked Diodes are 1SS355.

※Parts or parts block marked by "*" or "STBY" are standby.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

: The power supply is shown with the marked box.

3.8 COMPONENT ASSY



NOTES

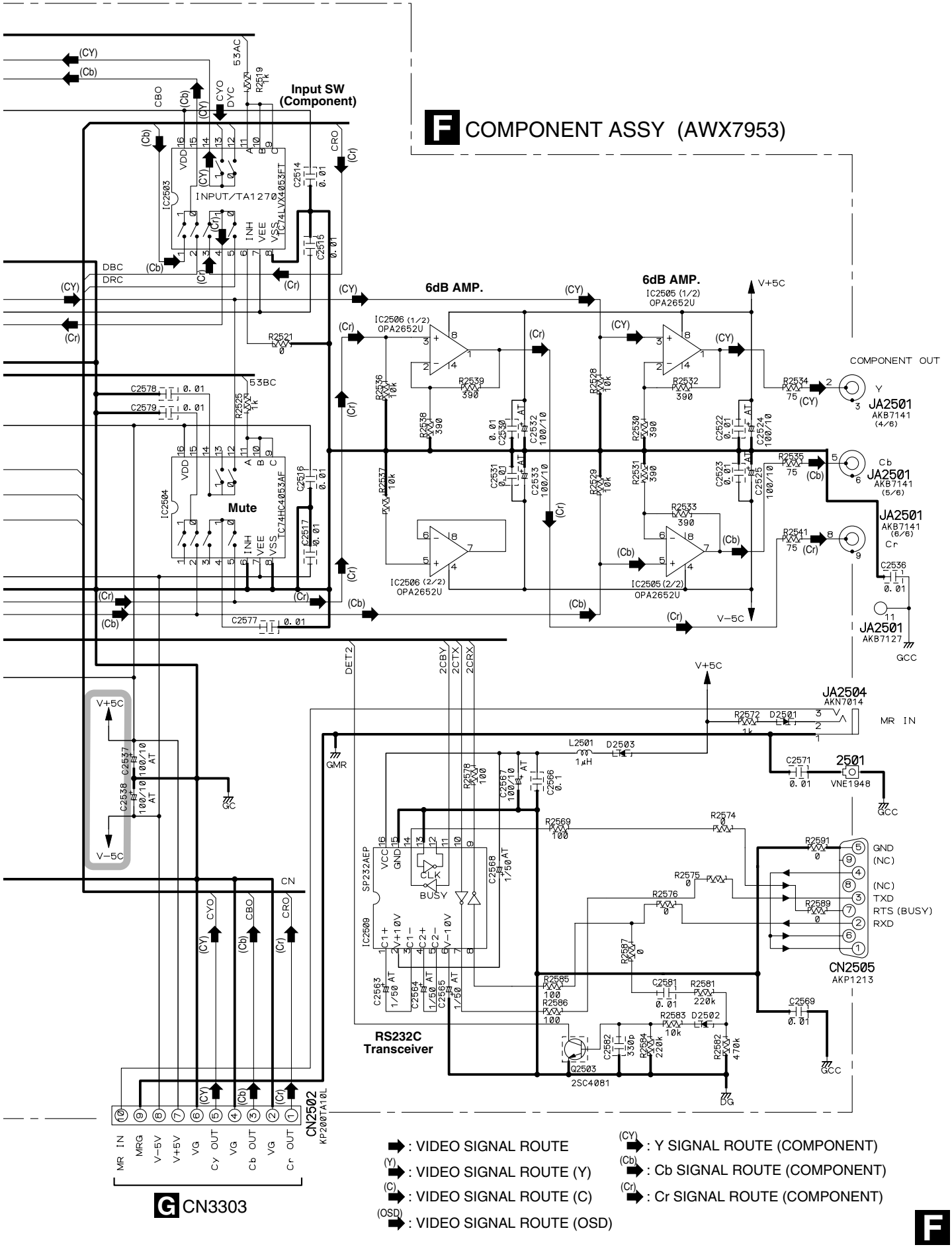
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   AT : CEAT
3. DIODES
   No marked Diodes are 1SS355.

※Parts or parts block marked by "*" or "STBY" are standby.

: The power supply is shown with the marked box.

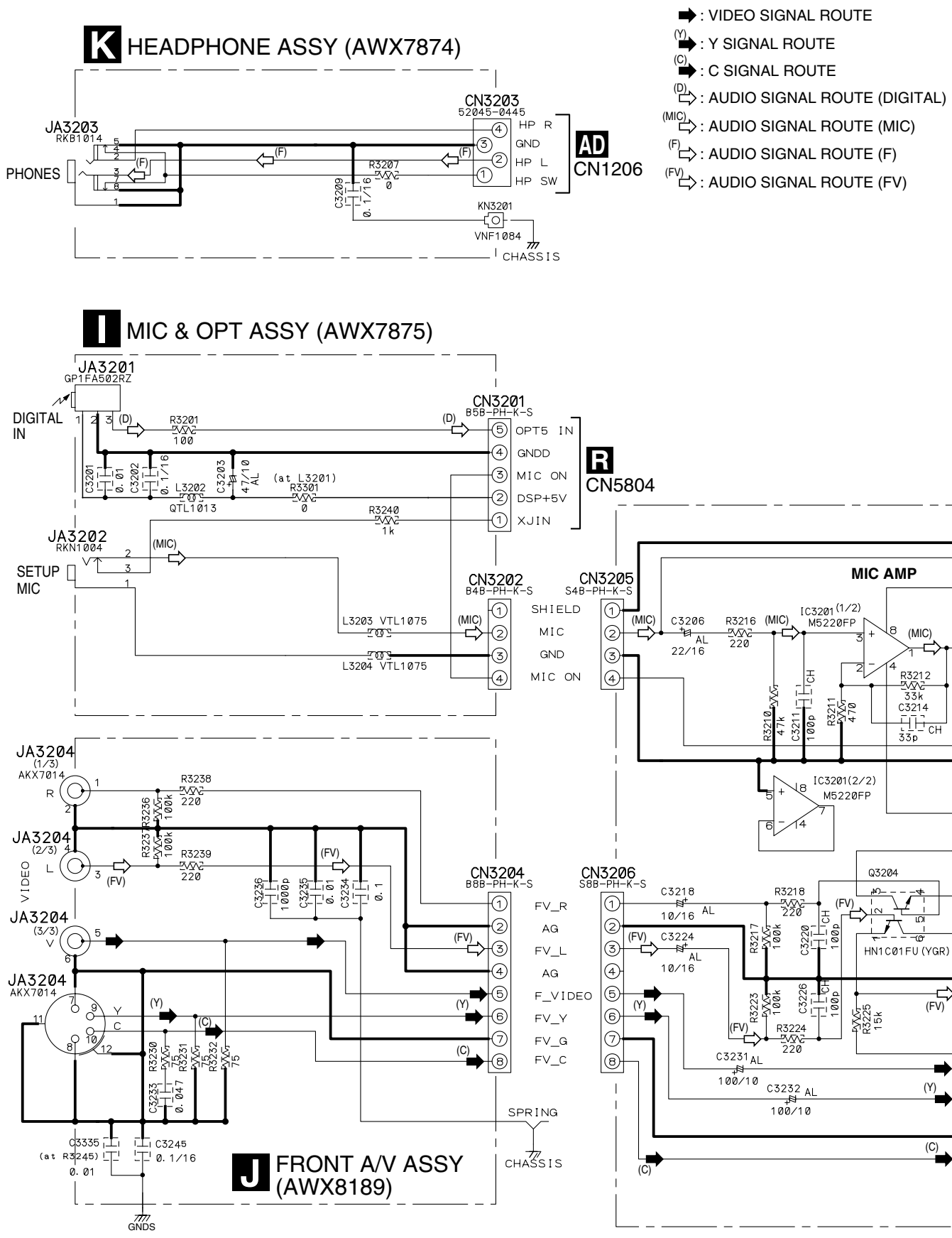
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

F COMPONENT ASSY (AWX7953)



: VIDEO SIGNAL ROUTE
(Y) : VIDEO SIGNAL ROUTE (Y)
(C) : VIDEO SIGNAL ROUTE (C)
(OSD) : VIDEO SIGNAL ROUTE (OSD)
(CY) : Y SIGNAL ROUTE (COMPONENT)
(Cb) : Cb SIGNAL ROUTE (COMPONENT)
(Cr) : Cr SIGNAL ROUTE (COMPONENT)

3.9 VIDEO CON., MIC AMP, MIC, FRONT A/V and H.P. ASSYS



H I J K

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   AL:CEAL, CH:CCSRCH
   :CKSRYB type unless otherwise noted.
3. DIODES
   No marked Diodes are 1SS355.

※Parts or parts block marked by "*" or "STBY" are standby.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

G VIDEO CONNECT ASSY (AWX7876)

CN3301 KM200TA12
1 V IN, 2 VG, 3 V OUT, 4 VG, 5 Y, 6 VG, 7 OSD, 8 VG, 9 V+5V, 10 V-5V, 11 MR G, 12 MR IN

C CN2102

CN3302 KM200TA8
1 Y, 2 VG, 3 C, 4 VG, 5 OSD, 6 VG, 7 V+5V, 8 V-5V

D CN2306

CN3303 KM200TA10
1 Cr OUT, 2 VG, 3 Cb OUT, 4 VG, 5 Cy OUT, 6 VG, 7 V+5V, 8 V-5V, 9 MR G, 10 MR IN

F CN2502

CN3304 KM200TA18
1 V IN, 2 VG, 3 Y, 4 VG, 5 C, 6 VG, 7 OSD, 8 VG, 9 V OUT, 10 VG, 11 Cr OUT, 12 VG, 13 Cb OUT, 14 VG, 15 Cy OUT, 16 VG, 17 V+5V, 18 V-5V

E CN2852

H MIC AMP ASSY (AWX7872)

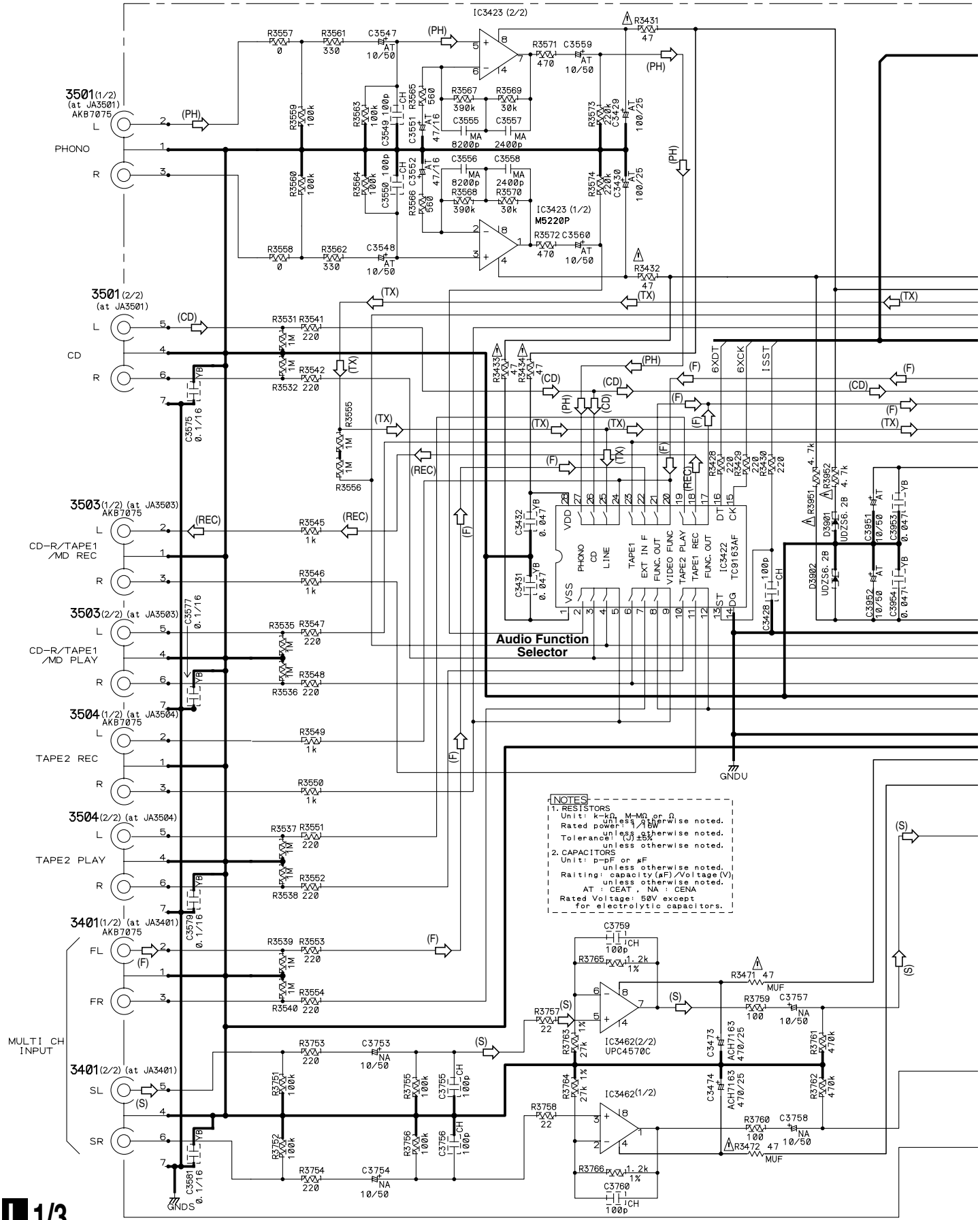
R3209 47, D3201, Q3202 (1/2) RN4903, R3213 100, C3210 AL 10/16, R3214 100k, R3241 22k, C3212 AL 22/35, R3202 6.8k, R3203 6.8k, R3206 6.8k, D3202 UDZS5.6B, C3228 0.1/16, C3230 AL 33/25, C3215 AL 22/35, R3215 47, Q3202 (2/2), C3250 1000p, C3205 0.1/16, KN3202 VNF1084, CHASSIS, R3228 47, C3252 0.01, C3253 1000p, C3213 0.01, C3223 AL 33/25, R3219 100, C3221 AL 10/16, R3243 100k, R3220 0, R3221 0, R3205 0, R3227 100, R3242 100k, C3238 0.01, R3226 15k, C3229 AL 33/25, C3227 AL 10/16, R3229 47, C3302 0.01, C3303 1000p

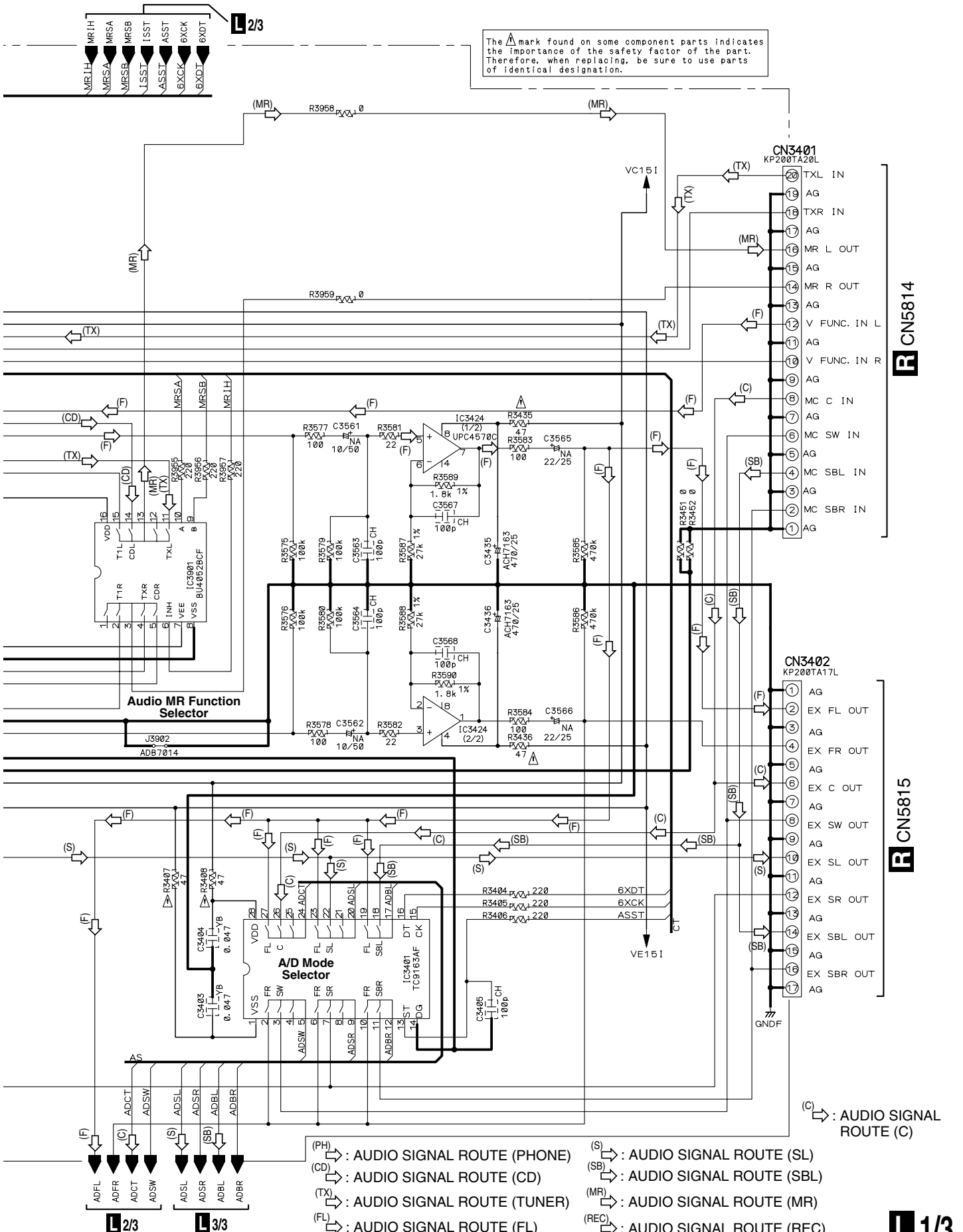
CN3207 52044-1145
11 MIC, 10 MIC_G, 9 FV_R, 8 AG, 7 FV_L, 6 A+20V, 5 FV_C, 4 FV_G, 3 FV_Y, 2 F_VIDEO, 1 A-20V

R CN5806

3.10 ANALOG IN & A/D ASSY(1/3)

L 1/3 ANALOG IN & A/D ASSY (AWX7878)

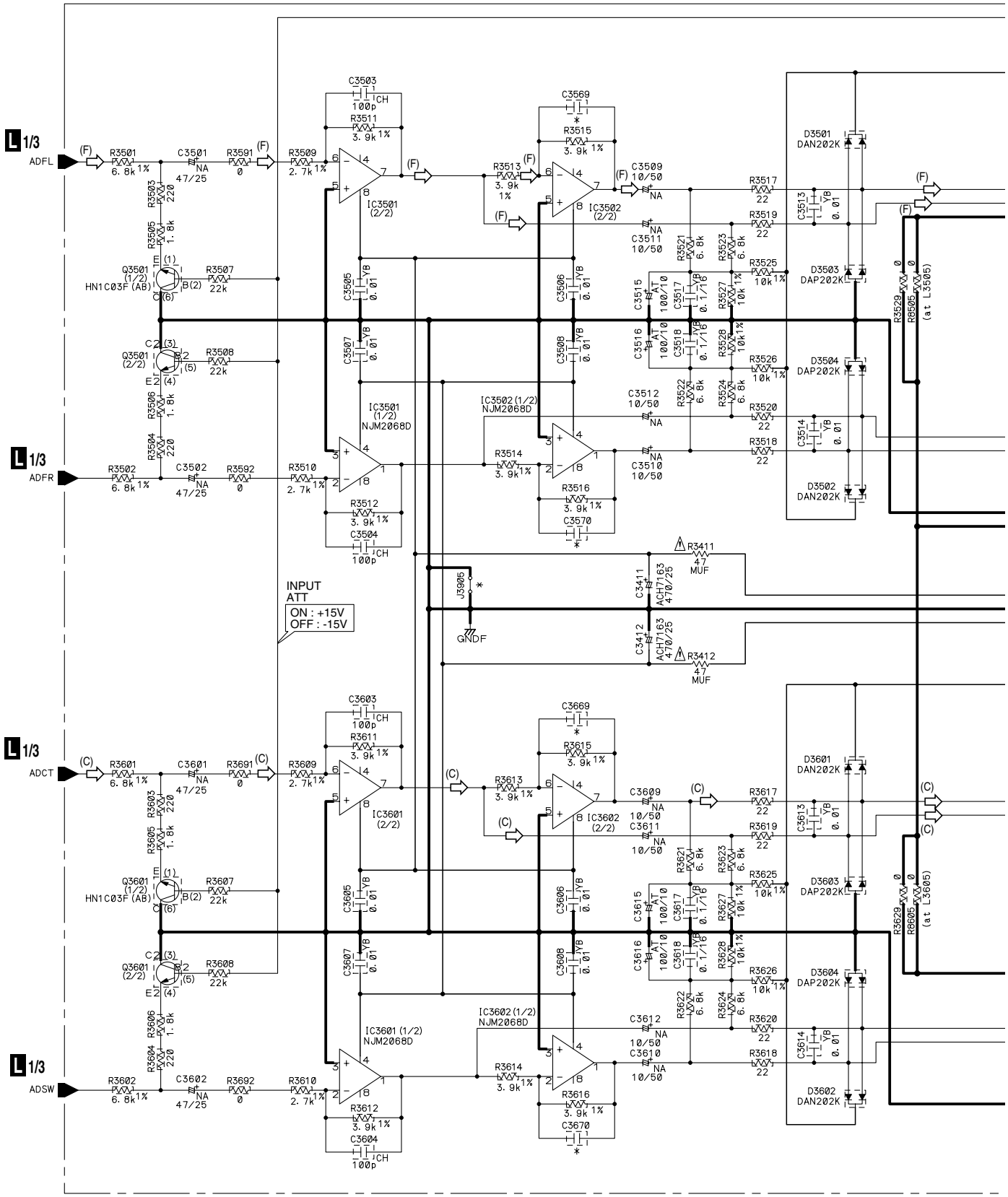



L 2/3
MRIH
MRSA
MRSB
ISST
ASST
6XCK
6XDT
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
CN3401
KP200TA20L
TXL IN
AG
TXR IN
MR L OUT
MR R OUT
V FUNC. IN L
V FUNC. IN R
MC C IN
MC SW IN
MC SBL IN
MC SBR IN
R CN5814
CN3402
KP200TA17L
EX FL OUT
EX FR OUT
EX C OUT
EX SW OUT
EX SL OUT
EX SR OUT
EX SBL OUT
EX SBR OUT
R CN5815
GNDF
VC15I
VE15I
Audio MR Function Selector
J3902
ADB7014
IC3901
BU4052BCF
IC3424 (1/2) UPC4570C
IC3424 (2/2)
A/D Mode Selector
IC3401
TC9163AF
R3958 0
R3959 0
R3451 0
R3452 0
R3404 220
R3405 220
R3406 220
6XDT
6XCK
ASST
(C) : AUDIO SIGNAL ROUTE (C)
(PH) : AUDIO SIGNAL ROUTE (PHONE)
(CD) : AUDIO SIGNAL ROUTE (CD)
(TX) : AUDIO SIGNAL ROUTE (TUNER)
(FL) : AUDIO SIGNAL ROUTE (FL)
(S) : AUDIO SIGNAL ROUTE (SL)
(SB) : AUDIO SIGNAL ROUTE (SBL)
(MR) : AUDIO SIGNAL ROUTE (MR)
(REC) : AUDIO SIGNAL ROUTE (REC)
L 1/3
L 2/3
L 3/3

3.11 ANAALOG IN & A/D ASSY(2/3)

L 2/3 ANALOG IN & A/D ASSY (AWX7878)

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.



L 2/3

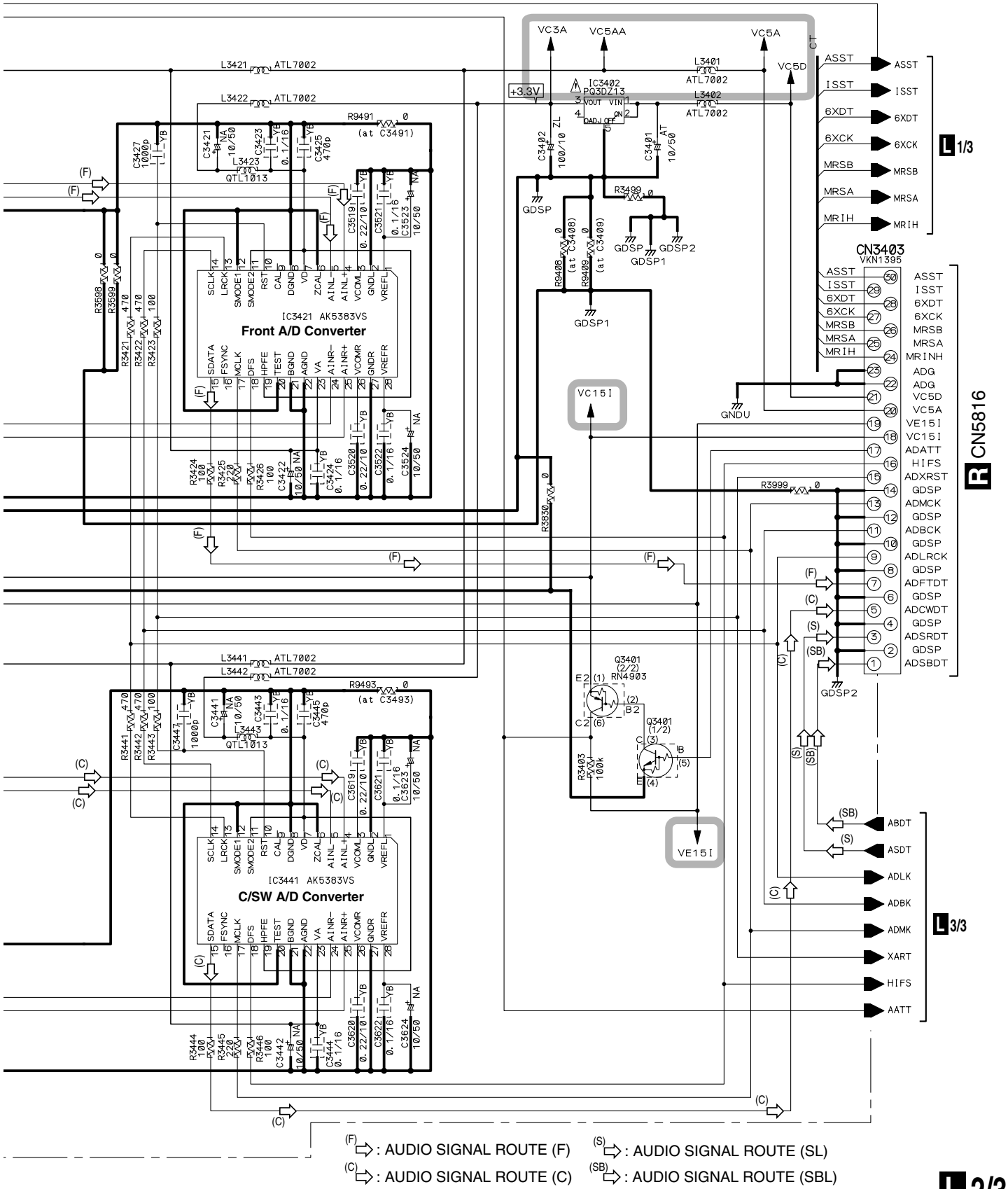
: The power supply is shown with the marked box.

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.

2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   AT : CEAT , NA : CENA

※Parts or parts block marked by "*" or "STBY" are standby.



(F) ⇨ : AUDIO SIGNAL ROUTE (F)
(S) ⇨ : AUDIO SIGNAL ROUTE (SL)
(C) ⇨ : AUDIO SIGNAL ROUTE (C)
(SB) ⇨ : AUDIO SIGNAL ROUTE (SBL)

L 2/3

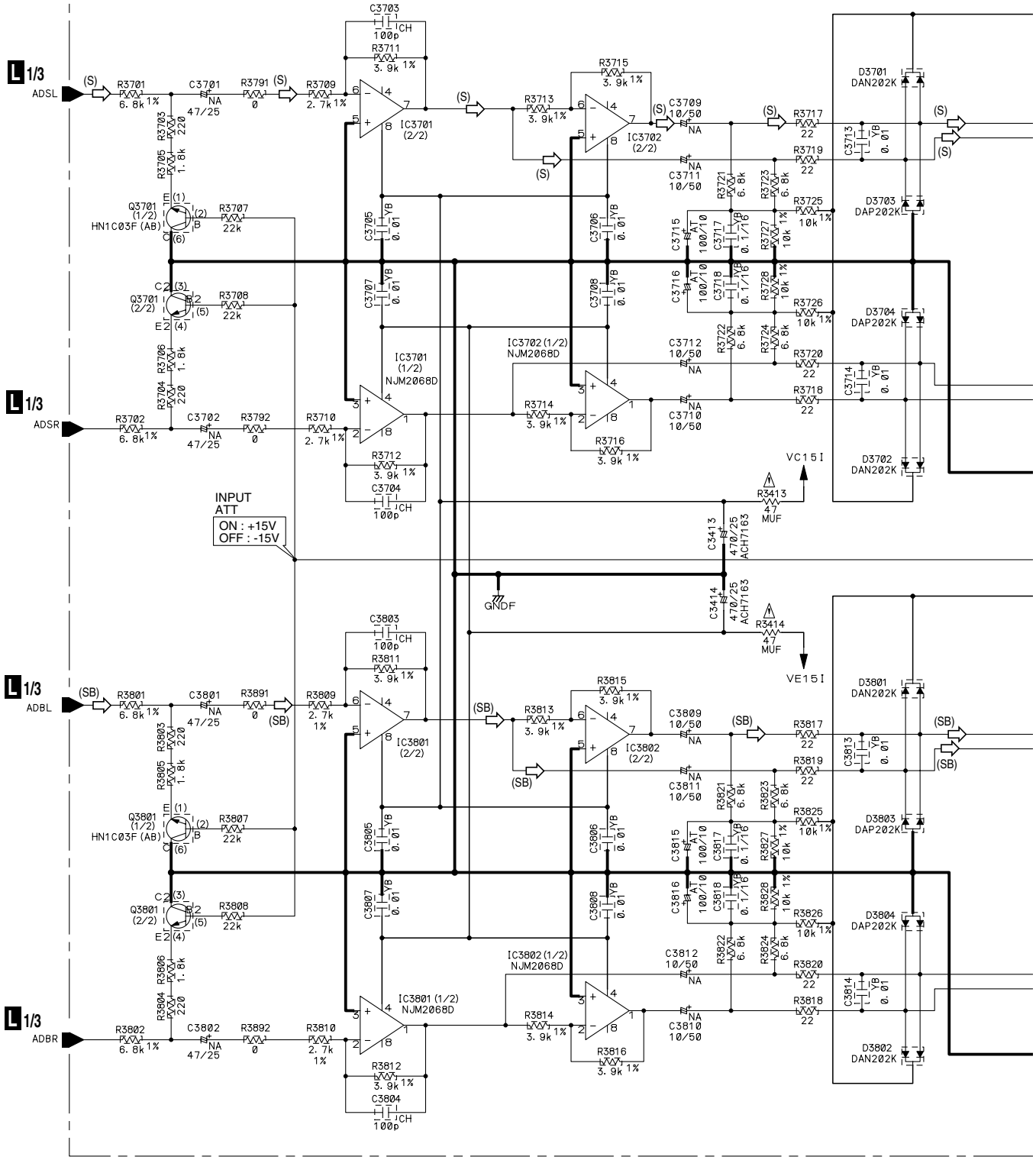
3.12 ANAALOG IN & A/D ASSY(3/3)

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   AT : CEAT , NA : CENA

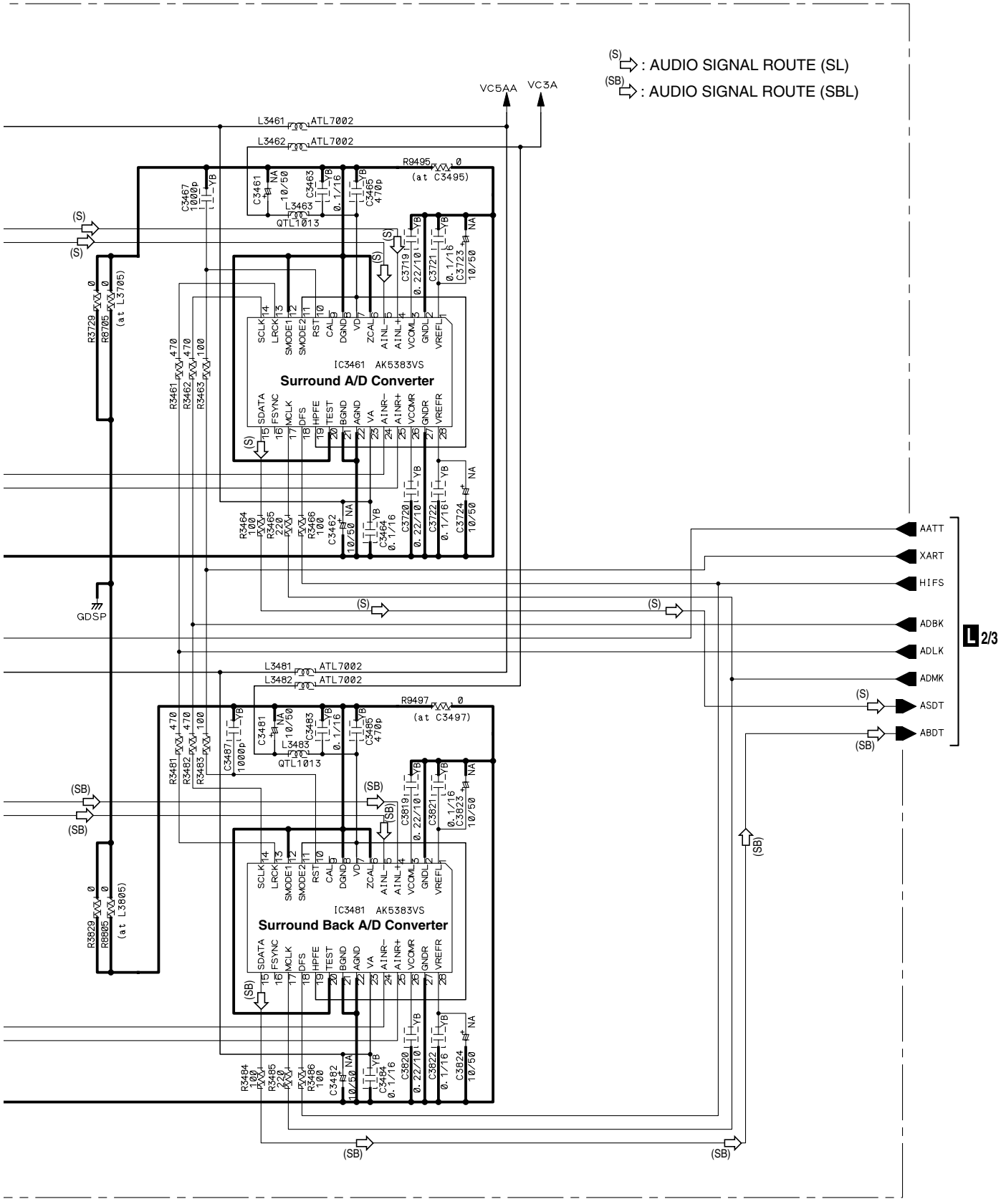
※Parts or parts block marked by "*" or "STBY" are standby.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

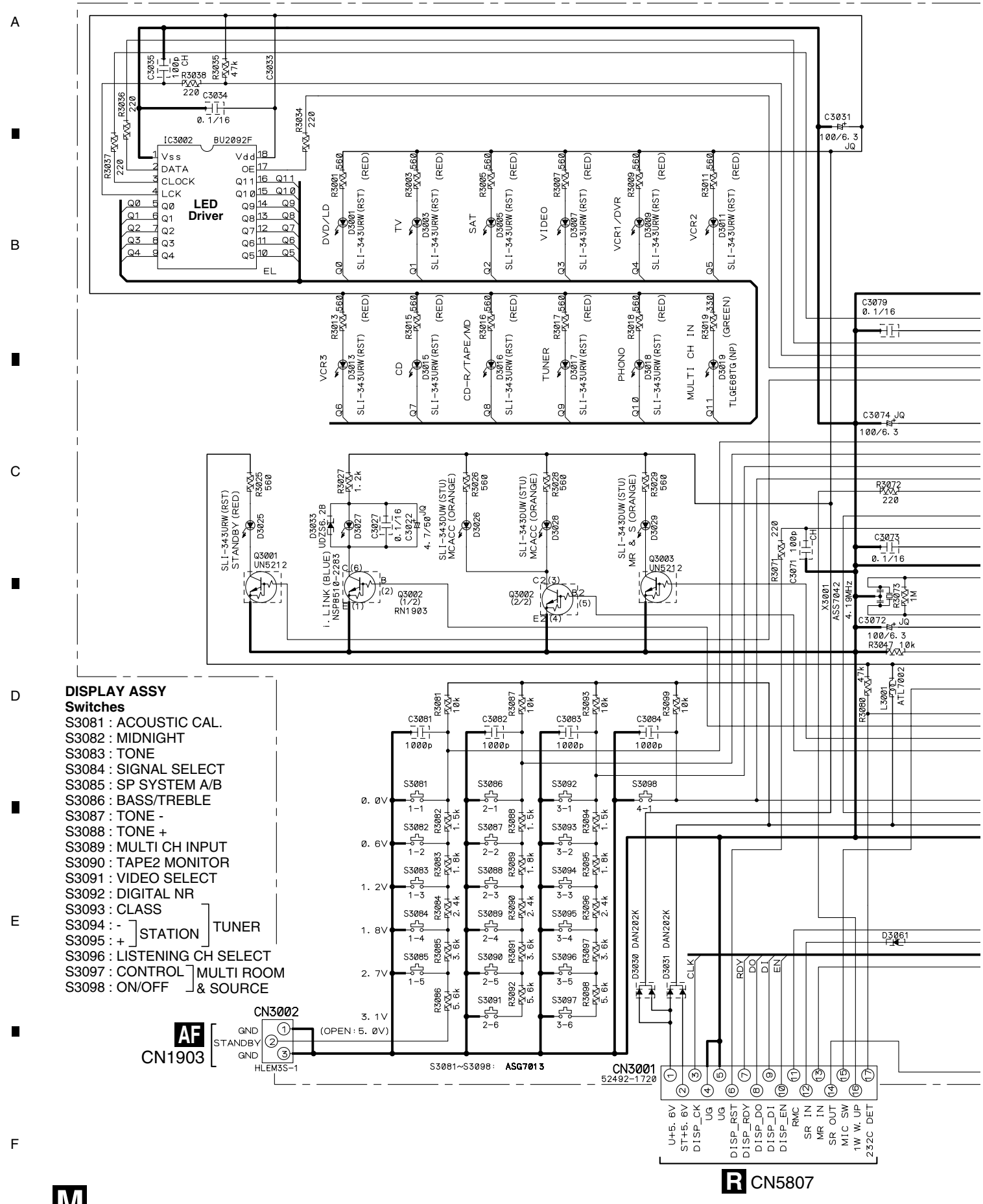


L 3/3

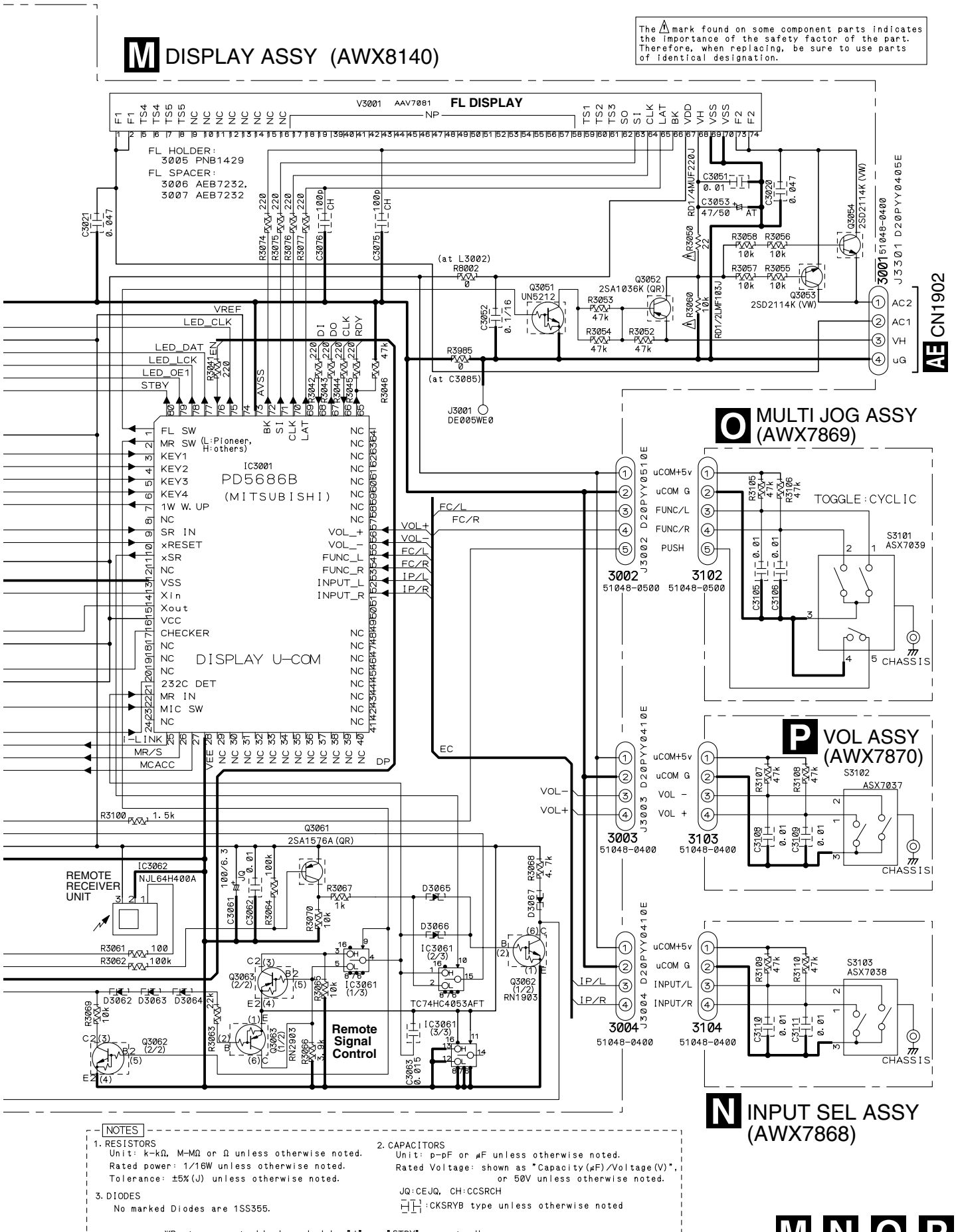
L 3/3 ANALOG IN & A/D ASSY (AWX7878)



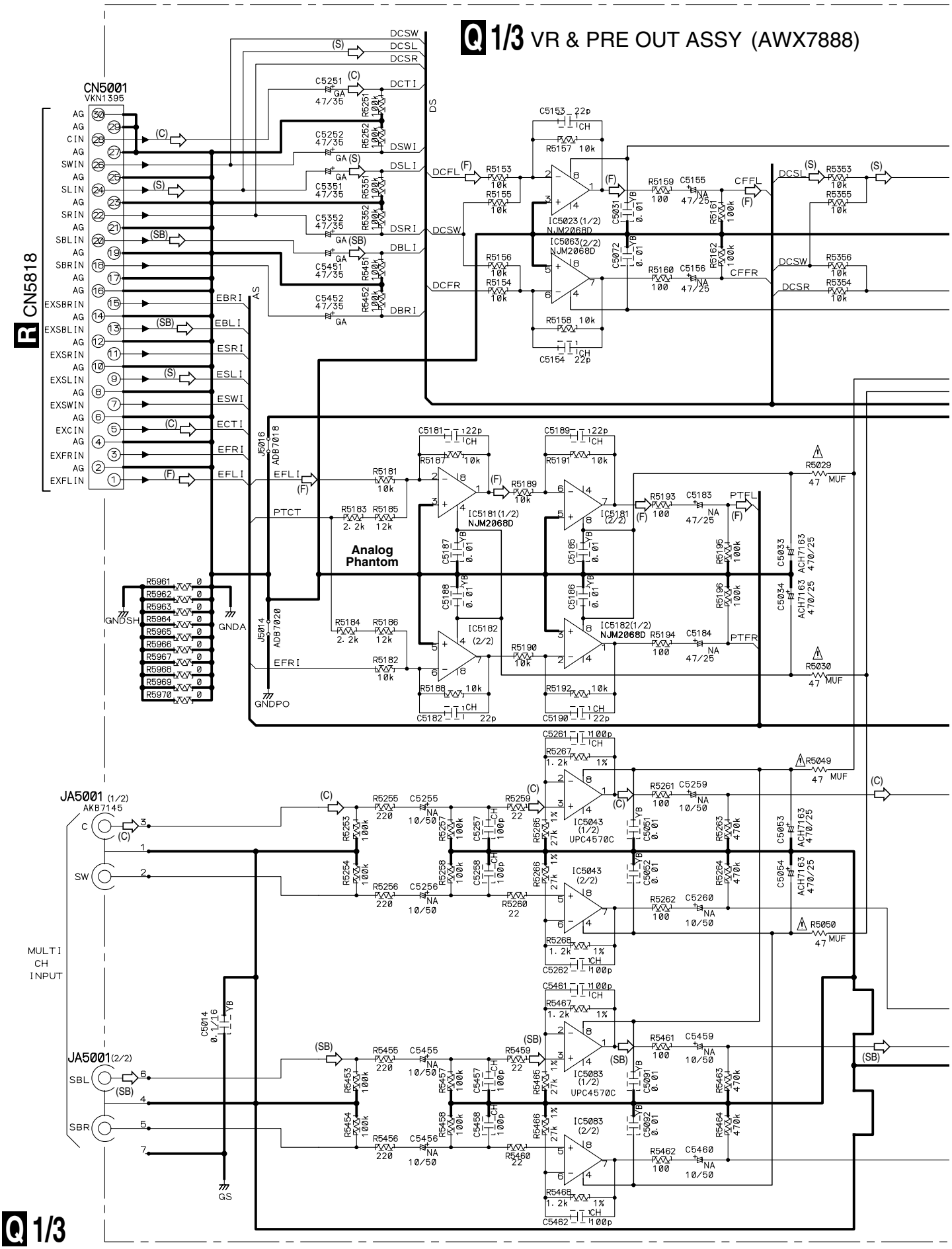
3.13 DISPLAY, INPUT SEL, MULTI JOG and VOL ASSYS

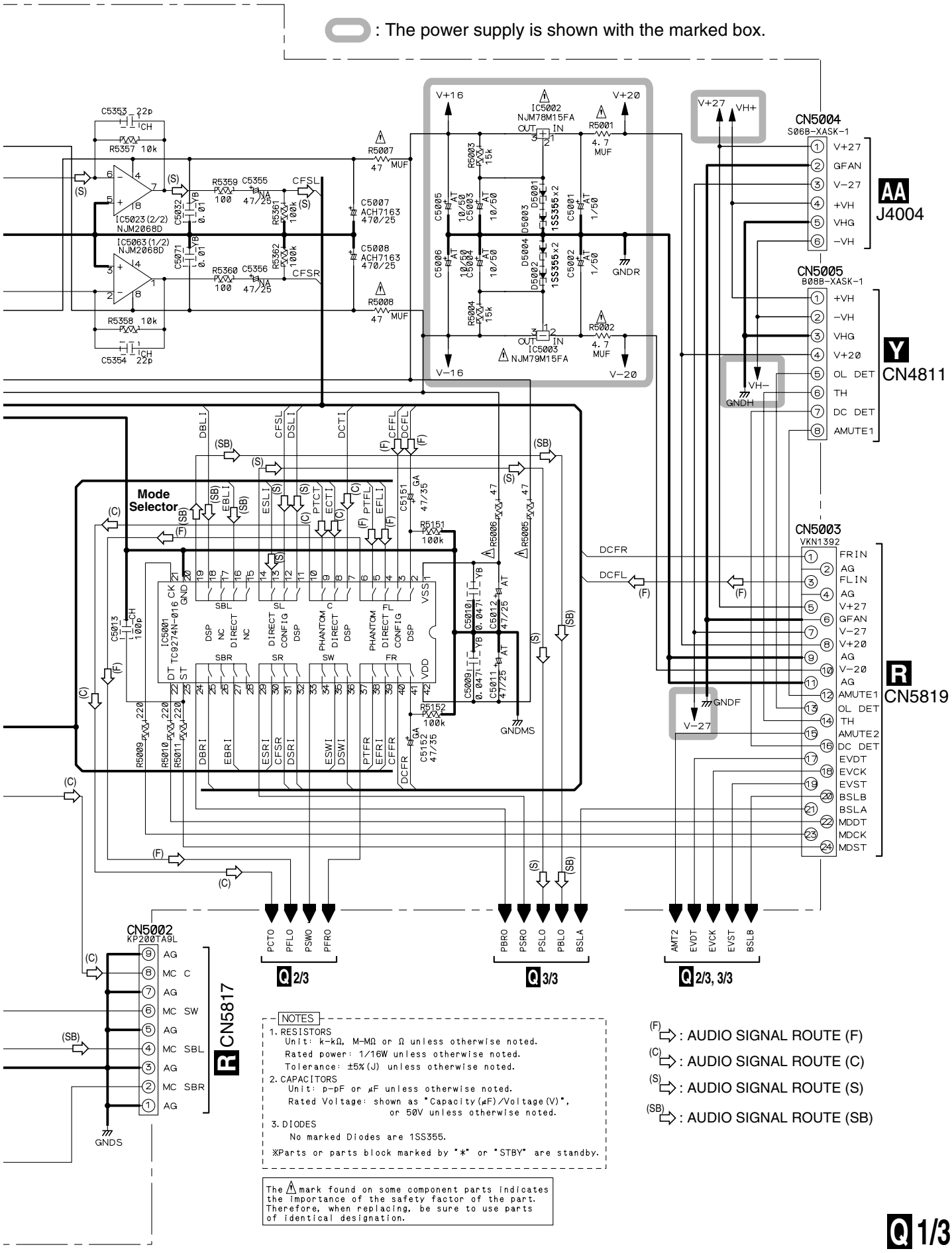


DISPLAY ASSY
Switches
S3081 : ACOUSTIC CAL.
S3082 : MIDNIGHT
S3083 : TONE
S3084 : SIGNAL SELECT
S3085 : SP SYSTEM A/B
S3086 : BASS/TREBLE
S3087 : TONE -
S3088 : TONE +
S3089 : MULTI CH INPUT
S3090 : TAPE2 MONITOR
S3091 : VIDEO SELECT
S3092 : DIGITAL NR
S3093 : CLASS
S3094 : -] STATION] TUNER
S3095 : +]
S3096 : LISTENING CH SELECT
S3097 : CONTROL] MULTI ROOM
S3098 : ON/OFF] & SOURCE

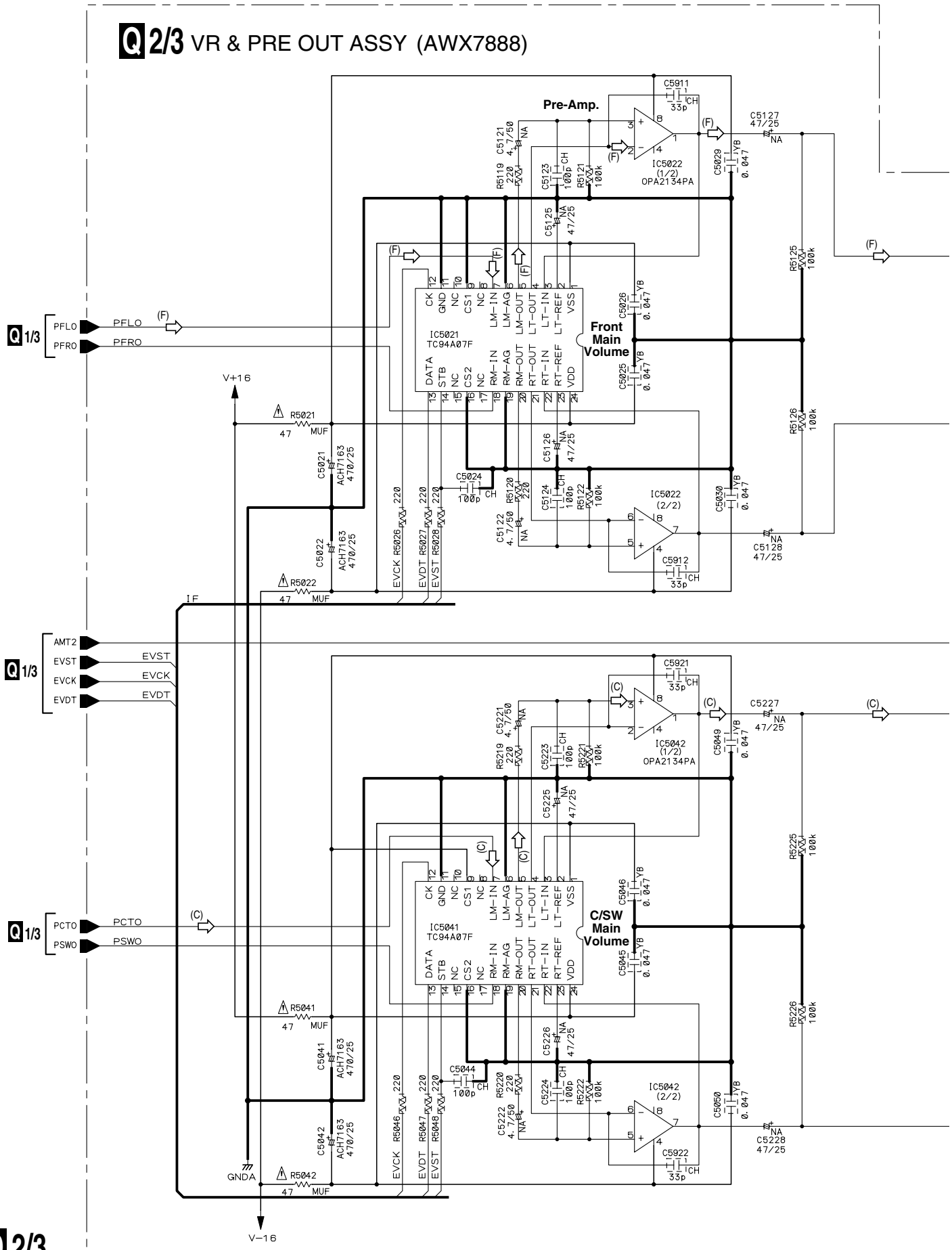

M DISPLAY ASSY (AWX8140)
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
V3001 AAV7081 FL DISPLAY
NP
FL HOLDER: 3005 PNB1429
FL SPACER: 3006 AEB7232, 3007 AEB7232
IC3001 PD5686B (MITSUBISHI)
DISPLAY U-COM
FL SW
MR SW (L:Pioneer, H:others)
KEY1
KEY2
KEY3
KEY4
1W W. UP
SR IN
xRESET
xSR
VSS
Xin
Xout
VCC
CHECKER
232C DET
MR IN
MIC SW
i-LINK
MR/S
MCACC
VREF
LED_CLK
LED_DAT
LED_LCK
LED_OE1
STBY
AVSS
BK
SI
CLK
LAT
VOL+
VOL-
FC/L
FC/R
IP/L
IP/R
EC
DP
CN1902
AC2
AC1
VH
uG
O MULTI JOG ASSY (AWX7869)
J3002 D20PYY0510E
uCOM+5v
uCOM G
FUNC/L
FUNC/R
PUSH
TOGGLE:CYCLIC
S3101 ASX7039
3002 51048-0500
3102 51048-0500
P VOL ASSY (AWX7870)
J3003 D20PYY0410E
VOL -
VOL +
S3102 ASX7037
3003 51048-0400
3103 51048-0400
J3004 D20PYY0410E
INPUT/L
INPUT/R
S3103 ASX7038
3004 51048-0400
3104 51048-0400
N INPUT SEL ASSY (AWX7868)
REMOTE RECEIVER UNIT
NJL64H400A
Remote Signal Control
TC74HC4053AFT
RN1903
RN2903
CHASSIS
NOTES
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
JQ:CEJQ, CH:CCSRCH
:CKSRYB type unless otherwise noted
3. DIODES
No marked Diodes are 1SS355.
※Parts or parts block marked by "*" or "STBY" are standby.

3.14 VR & PRE OUT ASSY(1/3)




: The power supply is shown with the marked box.
IC5002 NJM78M15FA
IC5003 NJM79M15FA
IC5023(2/2) NJM2068D
IC5063(1/2) NJM2068D
IC5001 TC9274N-016
Mode Selector
CN5004 S06B-XASK-1
V+27
GFAN
V-27
+VH
VHG
-VH
AA
J4004
CN5005 B08B-XASK-1
+VH
-VH
VHG
V+20
OL DET
TH
DC DET
AMUTE1
Y
CN4811
CN5003 VKN1392
FRIN
AG
FLIN
AG
V+27
GFAN
V-27
V+20
AG
V-20
AG
AMUTE1
OL DET
TH
AMUTE2
DC DET
EVDT
EVCK
EVST
BSLB
BSLA
MDDT
MDCK
MDST
R
CN5819
CN5002 KP200TA9L
AG
MC C
AG
MC SW
AG
MC SBL
AG
MC SBR
AG
R
CN5817
PCTO PFLO PSWO PFRO
Q 2/3
PBRO PSRO PSLO PBLO BSLA
Q 3/3
AMT2 EVDT EVCK EVST BSLB
Q 2/3, 3/3
GNDS
GNDMS
GNDH
GNDF
GNDR
V+16
V-16
V+20
V-20
VH+
VH-
DCFR
DCFL
NOTES
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
3. DIODES
No marked Diodes are 1SS355.
※Parts or parts block marked by "*" or "STBY" are standby.
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
(F): AUDIO SIGNAL ROUTE (F)
(C): AUDIO SIGNAL ROUTE (C)
(S): AUDIO SIGNAL ROUTE (S)
(SB): AUDIO SIGNAL ROUTE (SB)
Q 1/3

3.15 VR & PRE OUT ASSY(2/3)



NOTES

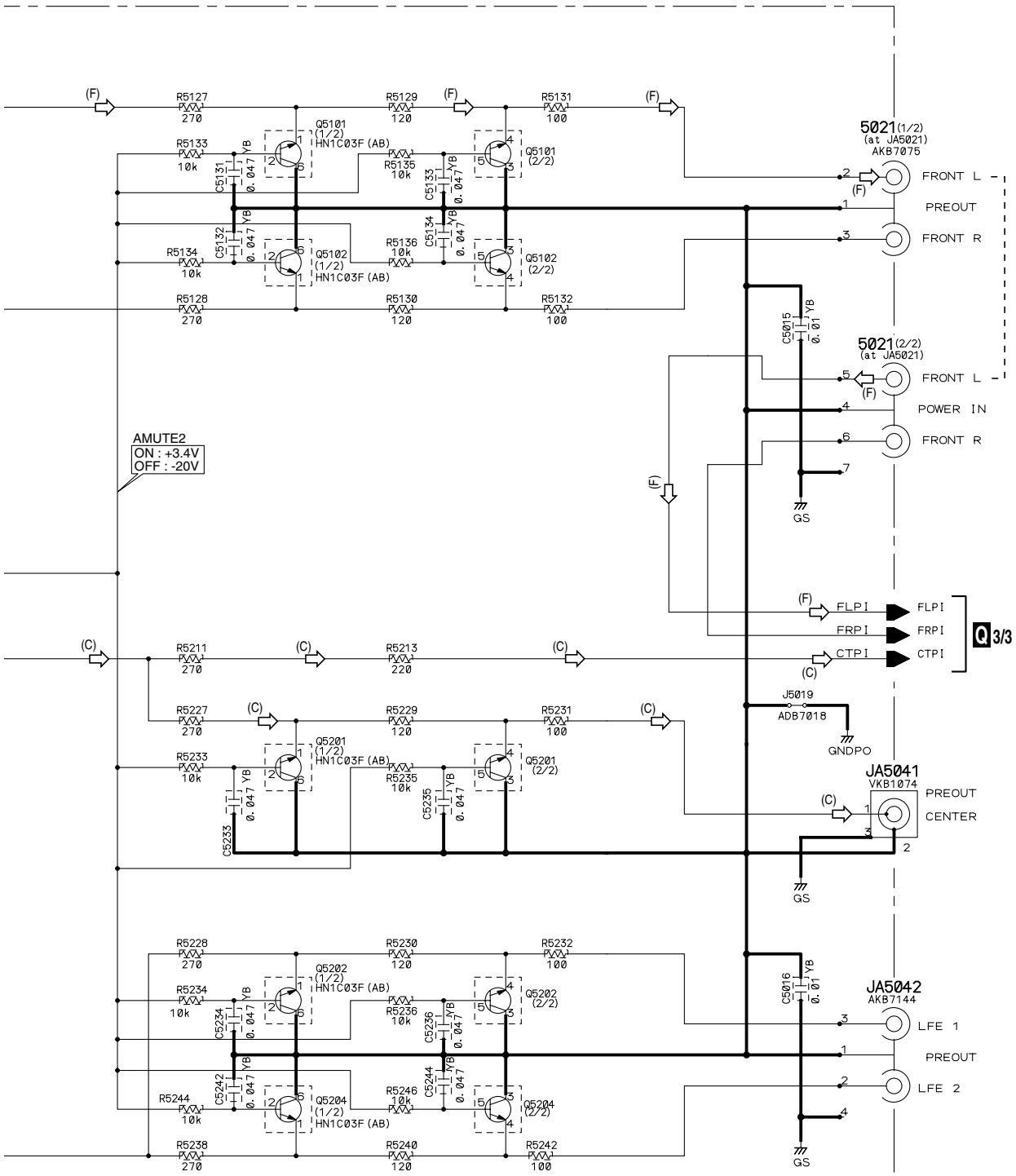
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   NA : CENA

※Parts or parts block marked by "*" or "STBY" are standby.

(F) : AUDIO SIGNAL ROUTE (F)

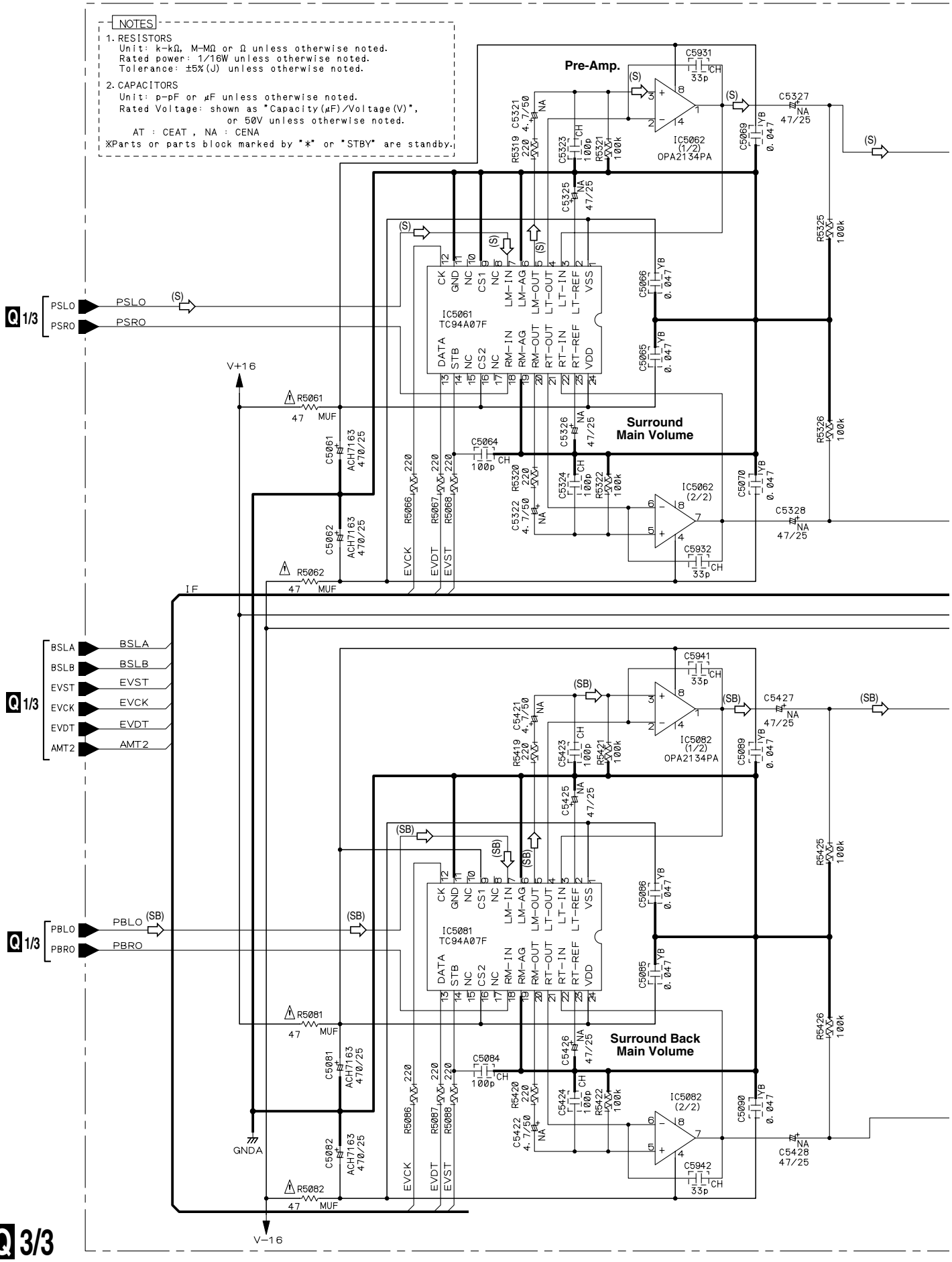
(C) : AUDIO SIGNAL ROUTE (C)

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.



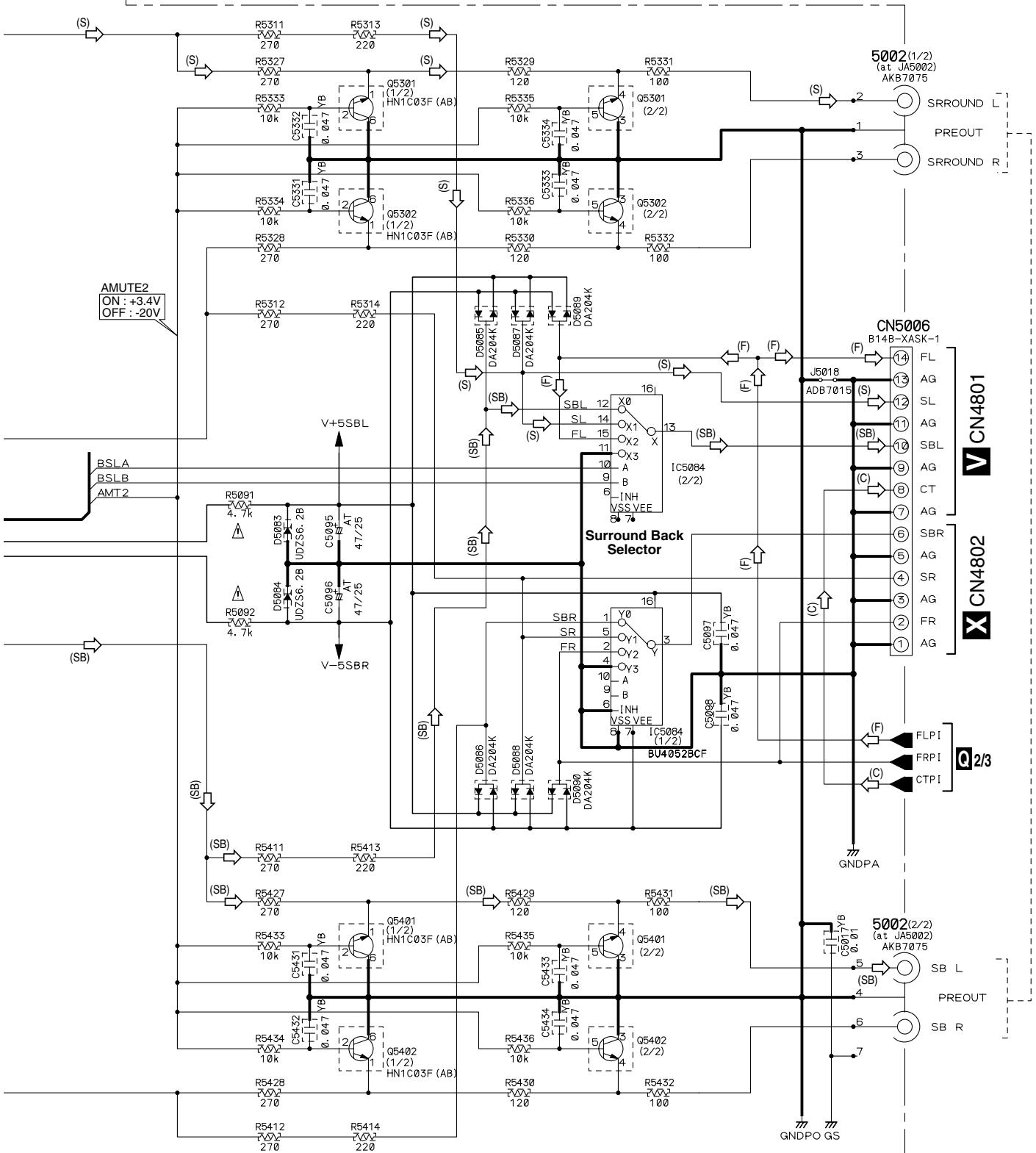
Q 2/3

3.16 VR & PRE OUT ASSY(3/3)



(F) : AUDIO SIGNAL ROUTE (F)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)

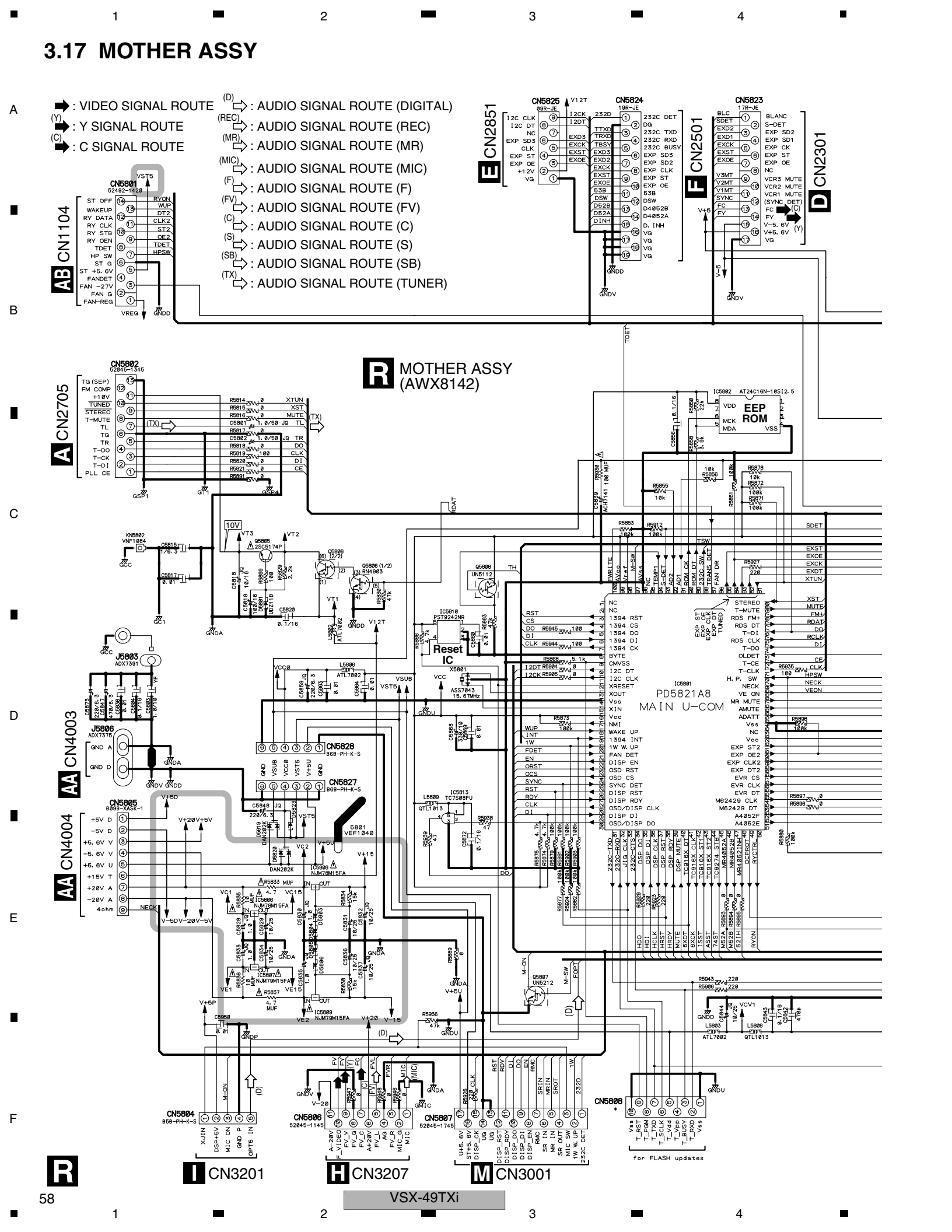
Q 3/3 VR & PRE OUT ASSY (AWX7888)

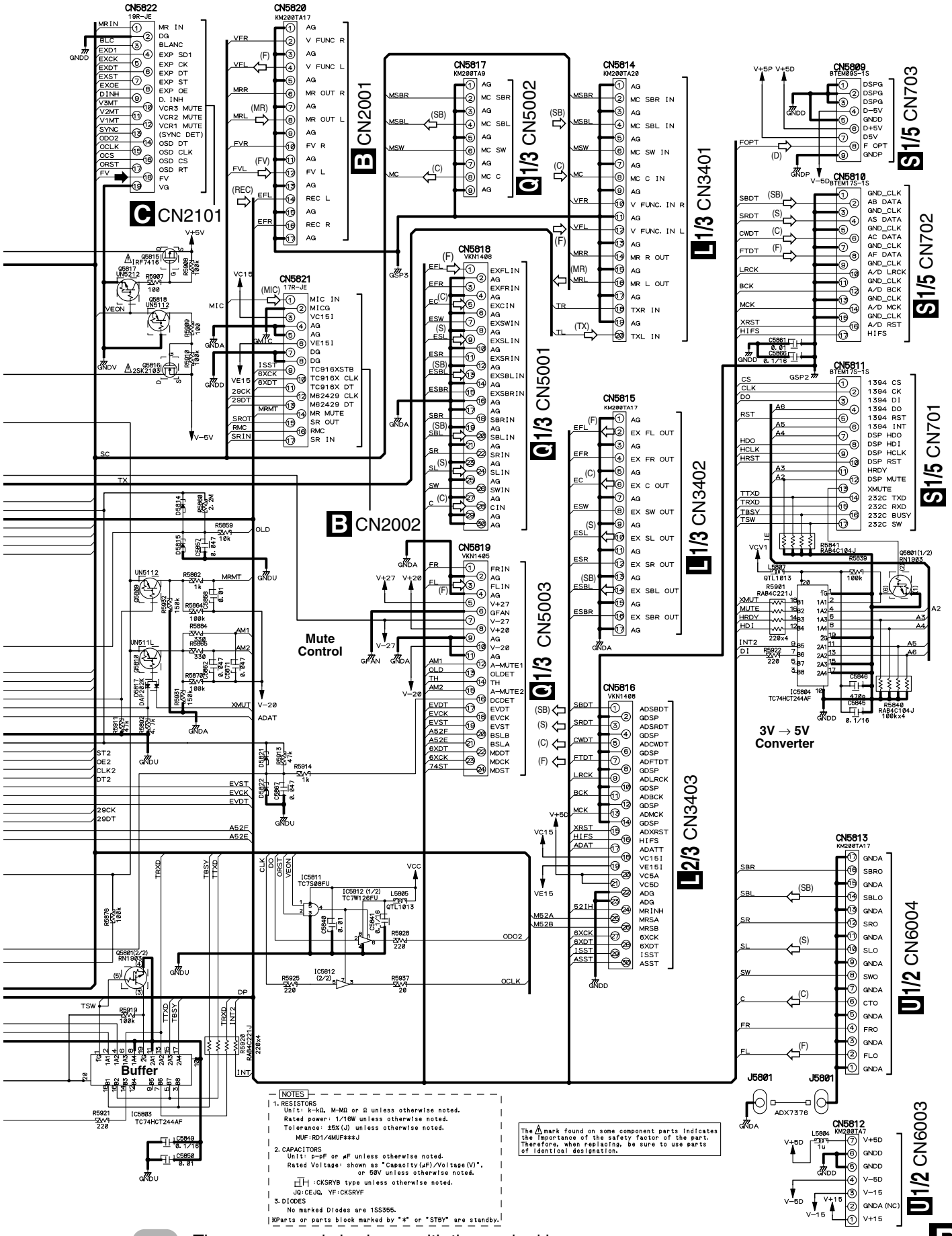


The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Q 3/3

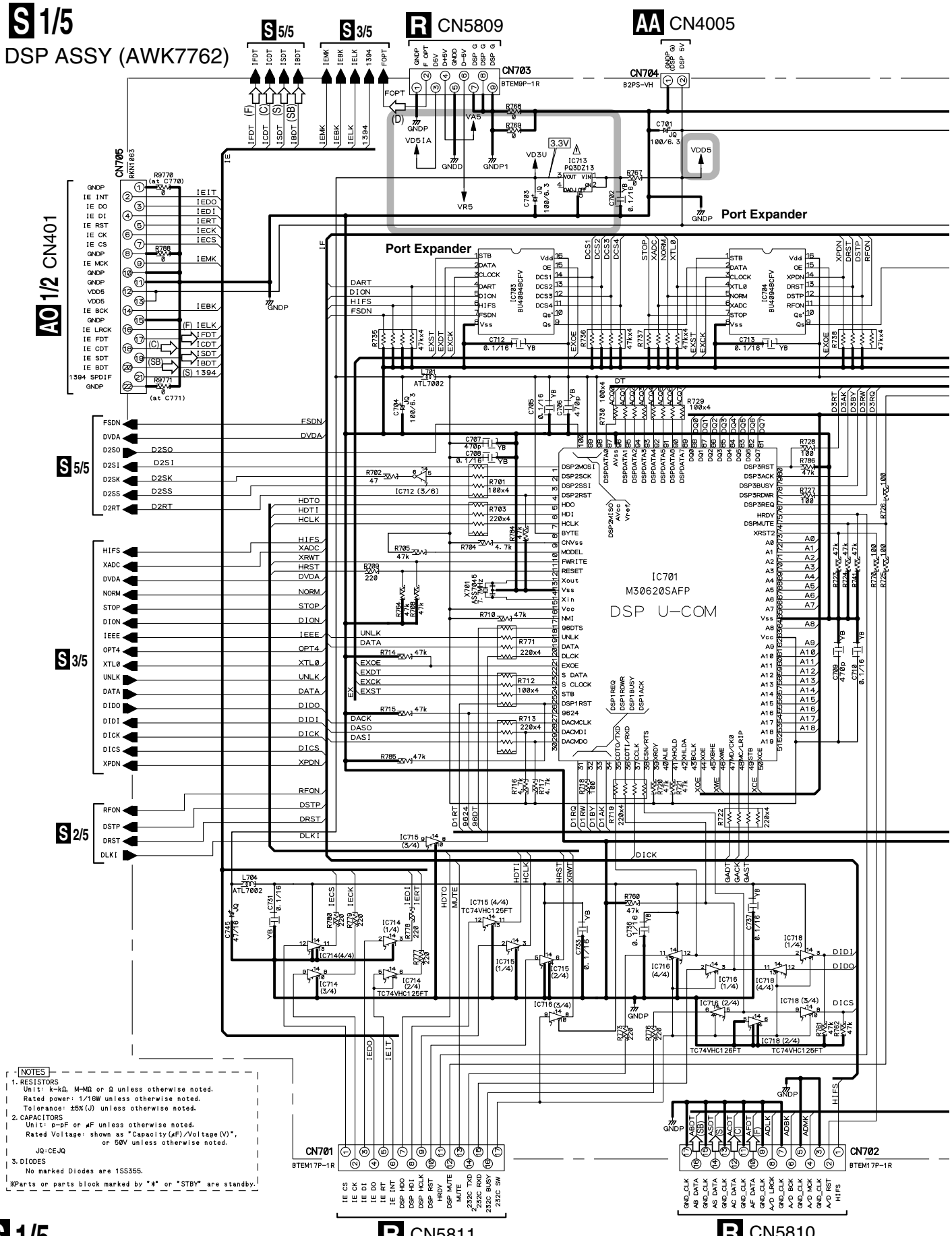
3.17 MOTHER ASSY

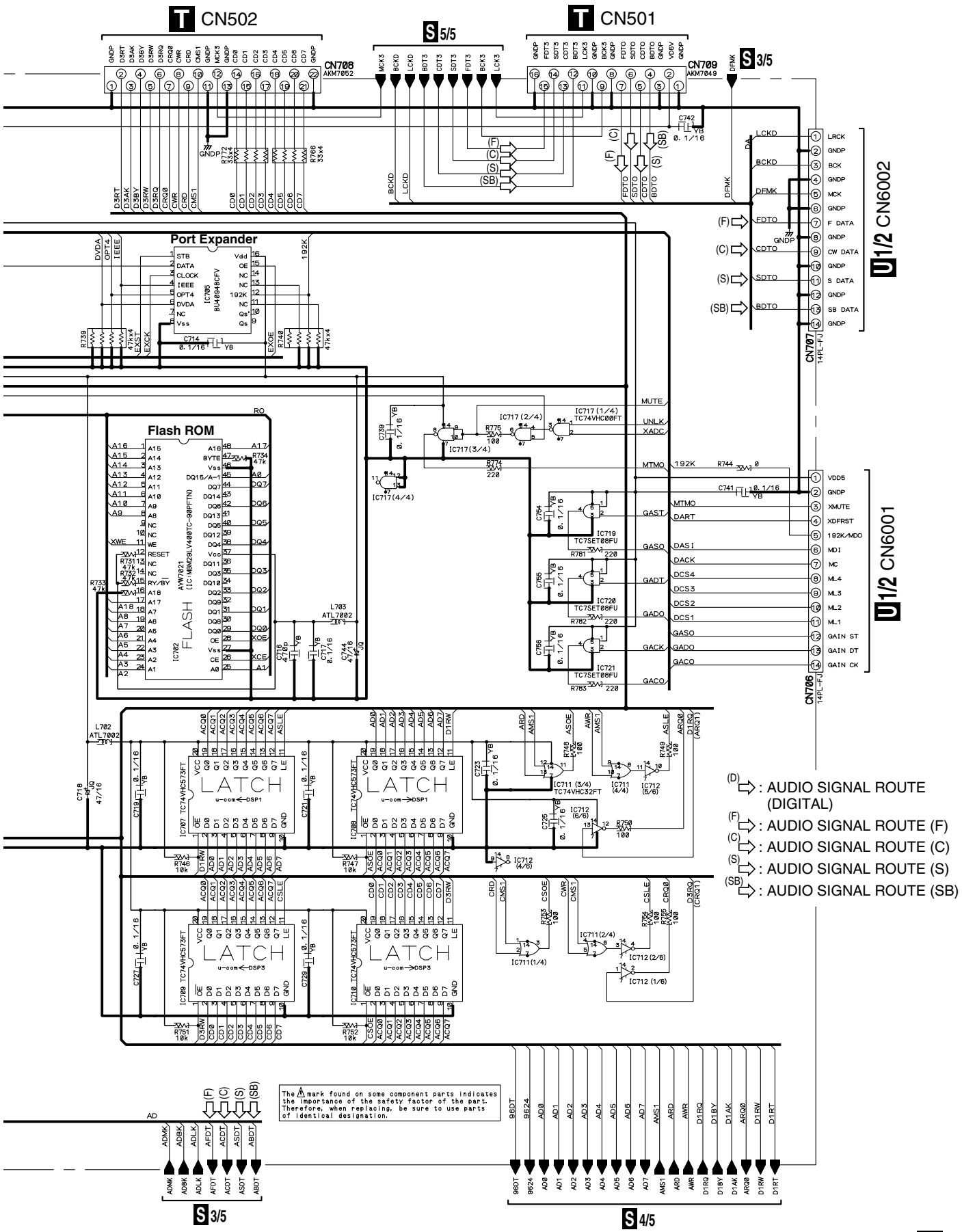




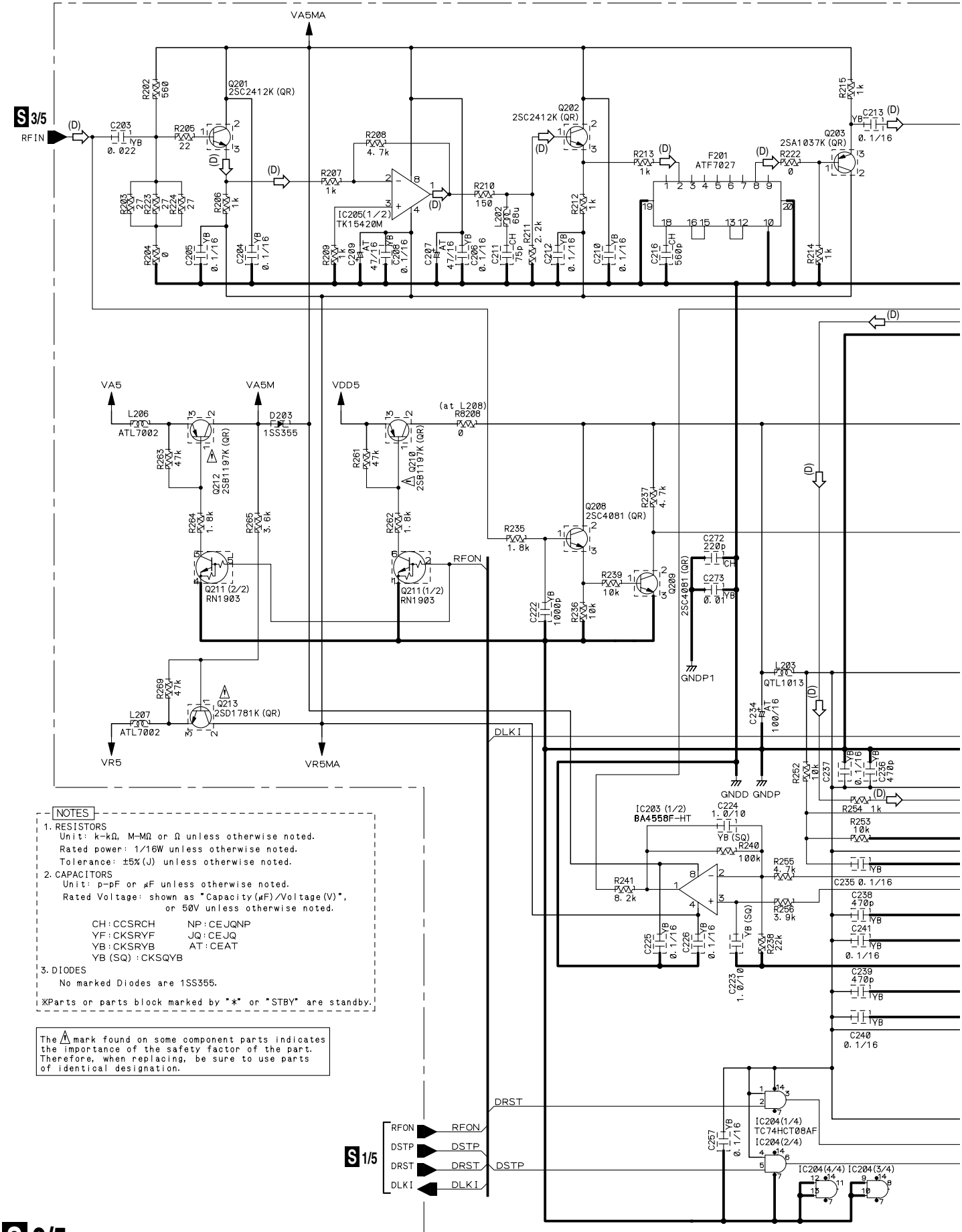
: The power supply is shown with the marked box.

3.18 DSP ASSY(1/5)




T CN502
S 5/5
T CN501
CN708 AKM7052
CN709 AKM7049
S 3/5
Port Expander
IC705 BU4094BCFV
Flash ROM
IC702 FLASH AYW7021 (IC:M29WL V400TC-90PFTN)
U 1/2 CN6002
U 1/2 CN6001
CN707 14PL-FJ1
CN706 14PL-FJ1
IC717 (1/4) TC74VHC00FT
IC717 (2/4)
IC717 (3/4)
IC717 (4/4)
IC719 TC7SET08FU
IC720 TC7SET08FU
IC721 TC7SET08FU
IC707 TC74VHC573FT LATCH u-com←DSP1
IC708 TC74VHC573FT LATCH u-com→DSP1
IC709 TC74VHC573FT LATCH u-com←DSP3
IC710 TC74VHC573FT LATCH u-com→DSP3
IC711 (3/4) TC74VHC32FT
IC711 (4/4)
IC712 (6/6)
IC712 (5/6)
IC711(1/4)
IC711(2/4)
IC712 (2/6)
IC712 (1/6)
L702 ATL7002
L703 ATL7002
MUTE
UNLK
XADC
MTMO
192K
GAST
GASO
GADT
GADO
GASO
GACK
GADO
GACO
DART
DASI
DACK
DCS4
DCS3
DCS2
DCS1
ML4
ML3
ML2
ML1
GAIN ST
GAIN DT
GAIN CK
MDI
MC
XMUTE
XDFRST
192K/MDO
(D) : AUDIO SIGNAL ROUTE (DIGITAL)
(F) : AUDIO SIGNAL ROUTE (F)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
S 3/5
S 4/5
: The power supply is shown with the marked box.
S 1/5

3.19 DSP ASSY(2/5)



NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

   CH:CCSRCH NP:CEJQNP
   YF:CKSRYF JQ:CEJQ
   YB:CKSRYB AT:CEAT
   YB(SQ):CKSQYB

3. DIODES
   No marked Diodes are 1SS355.

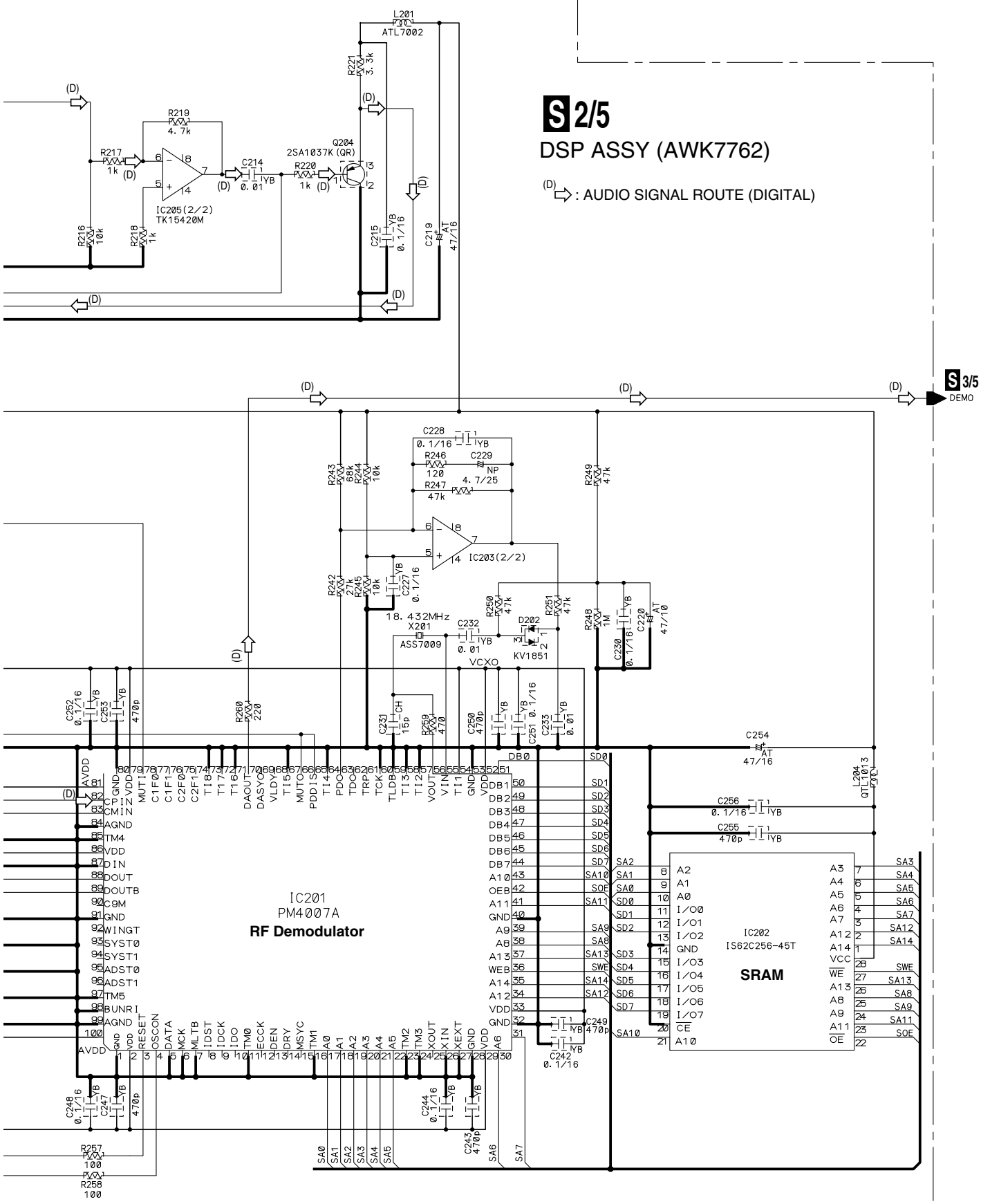
※Parts or parts block marked by "*" or "STBY" are standby.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

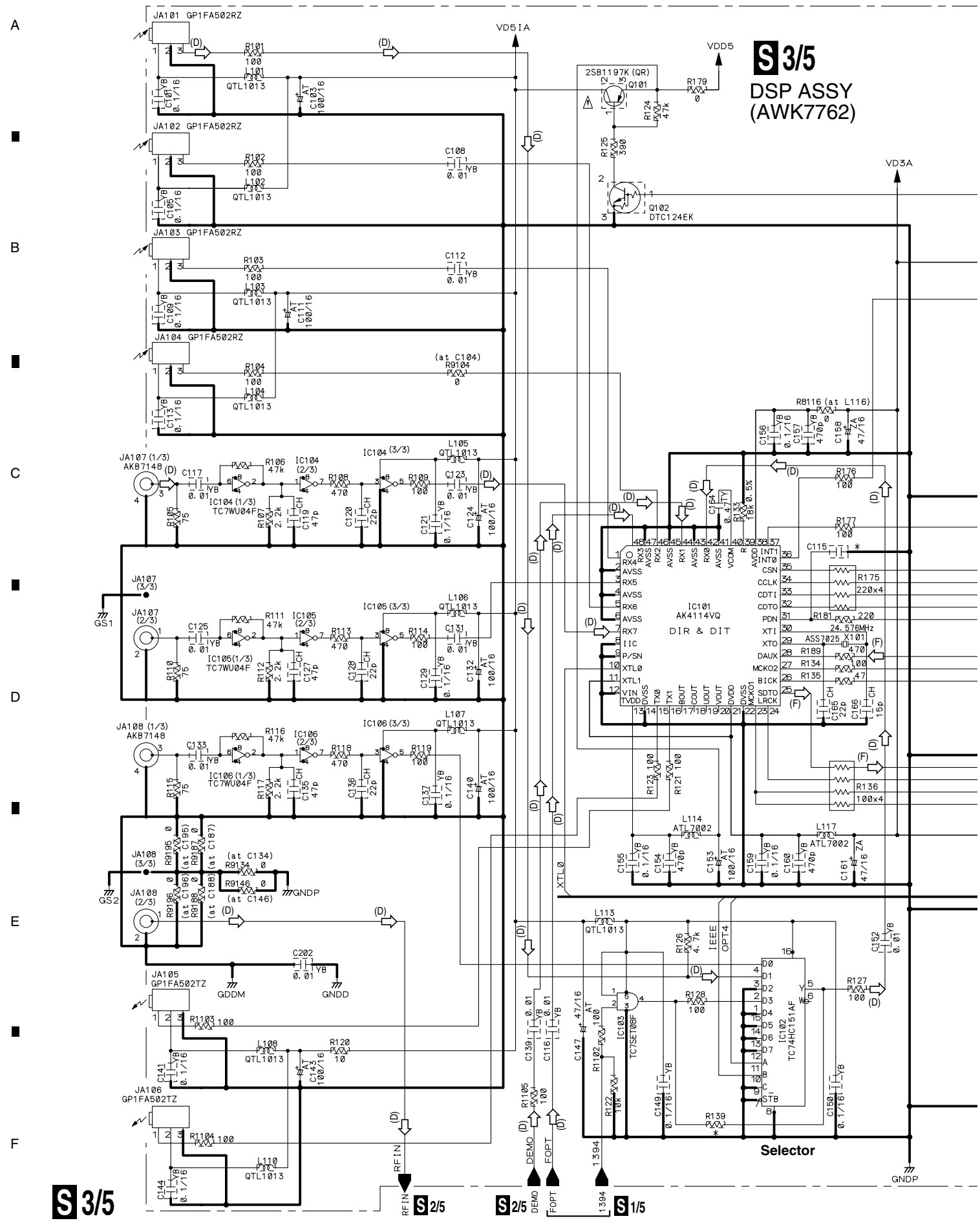
S 2/5

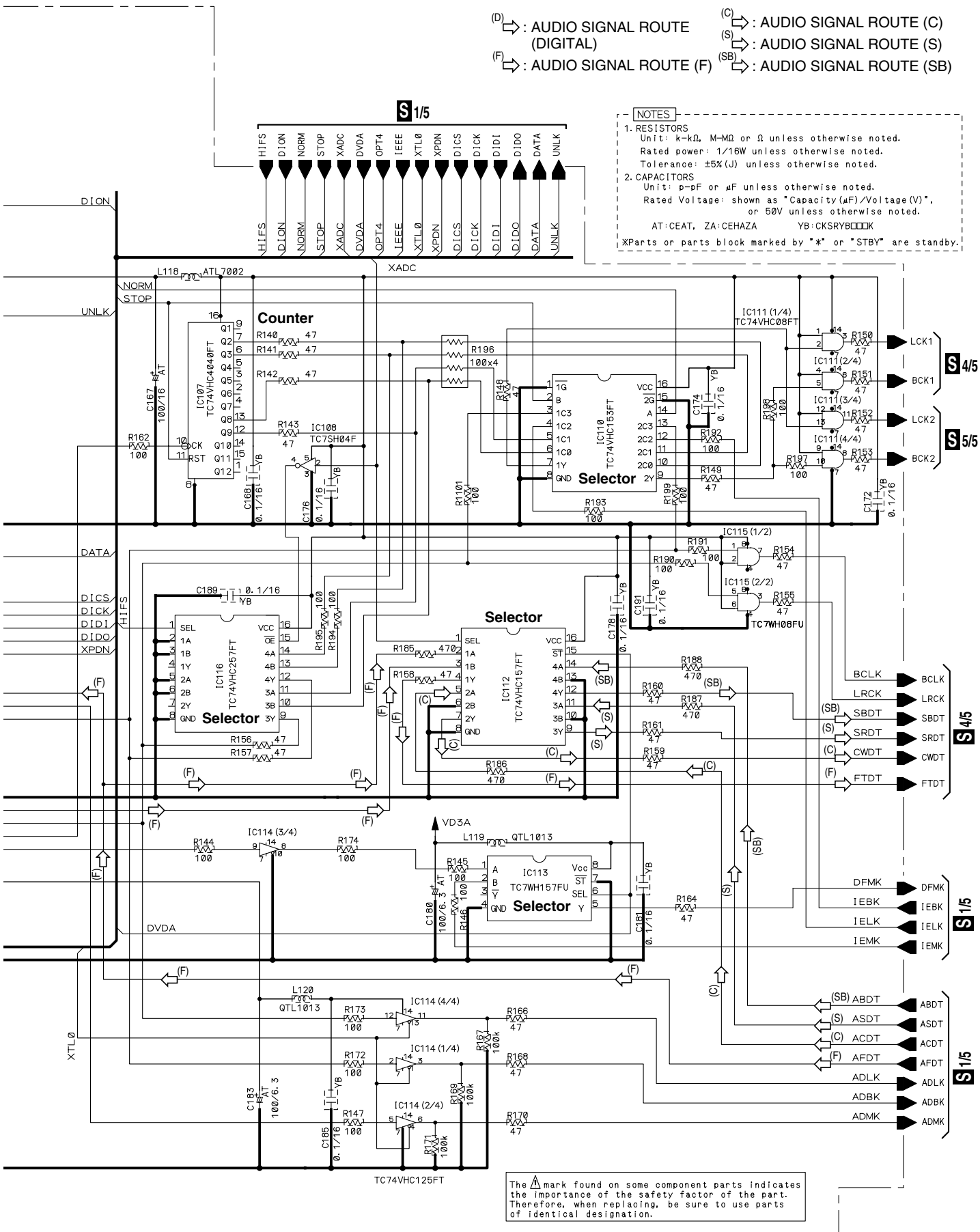
DSP ASSY (AWK7762)

(D) ⇨ : AUDIO SIGNAL ROUTE (DIGITAL)

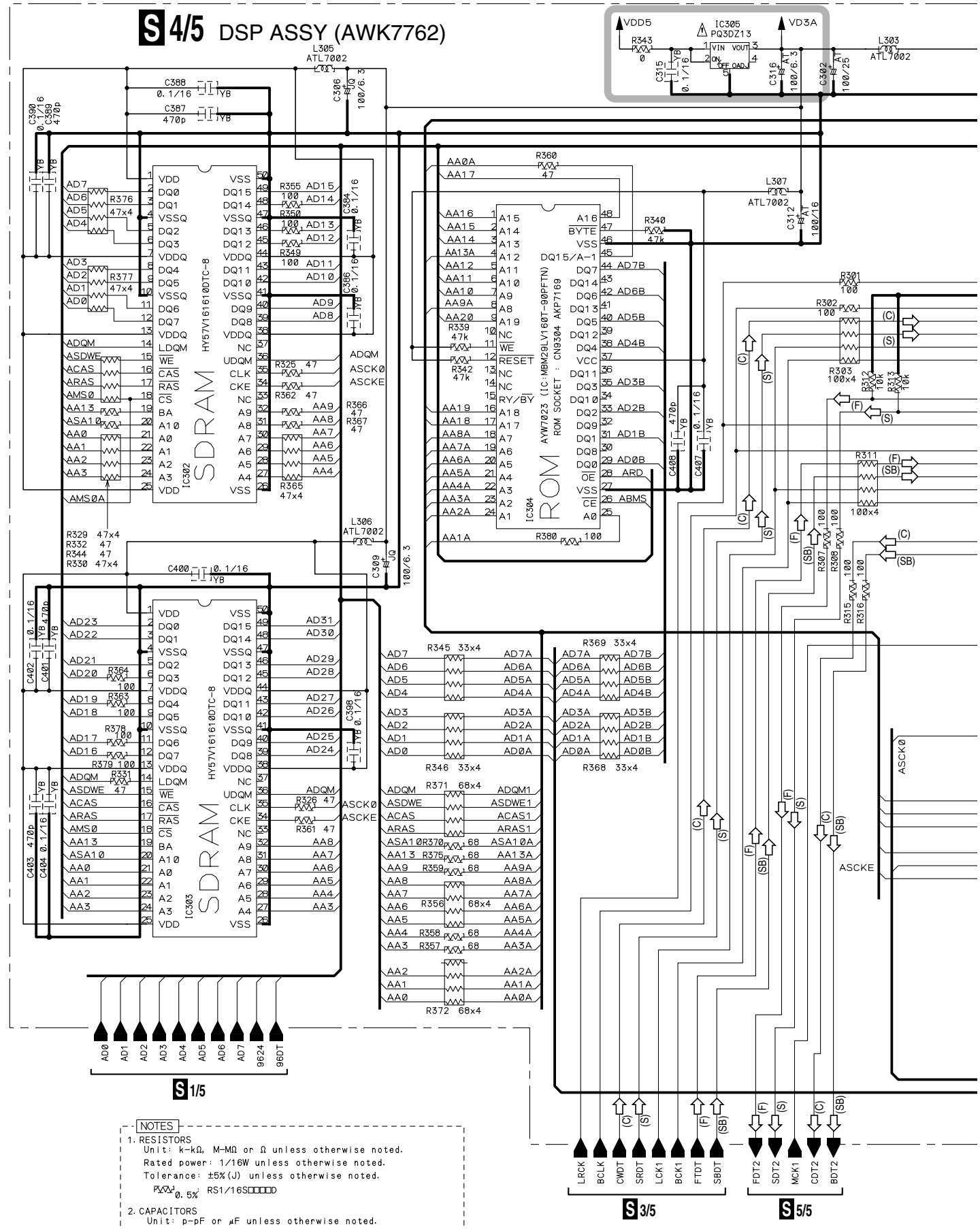


3.20 DSP ASSY(3/5)




(D) : AUDIO SIGNAL ROUTE (DIGITAL)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (S)
(F) : AUDIO SIGNAL ROUTE (F)
(SB) : AUDIO SIGNAL ROUTE (SB)
S 1/5
HIFS DION NORM STOP XADC DVDA OPT4 IEEE XTL0 XPDN DICS DICK DIDI DIDO DATA UNLK
NOTES
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
AT:CEAT, ZA:CEHAZA YB:CKSRYB□□□K
※Parts or parts block marked by "*" or "STBY" are standby.
DION
NORM
STOP
UNLK
XADC
L118 ATL7002
Counter
IC107 TC74VHC4040FT
IC108 TC7SH04F
IC110 TC74VHC153FT
Selector
IC111 (1/4) TC74VHC08FT
IC111 (2/4)
IC111 (3/4)
IC111 (4/4)
LCK1
BCK1
LCK2
BCK2
S 4/5
S 5/5
DATA
DICS
DICK
DIDI
DIDO
XPDN
HIFS
IC116 TC74VHC257FT
IC112 TC74VHC157FT
IC115 (1/2)
IC115 (2/2)
TC7WH08FU
BCLK
LRCK
SBDT
SRDT
CWDT
FTDT
VD3A
L119 QTL1013
IC114 (3/4)
IC113 TC7WH157FU
DFMK
IEBK
IELK
IEMK
S 1/5
DVDA
XTL0
L120 QTL1013
IC114 (4/4)
IC114 (1/4)
IC114 (2/4)
TC74VHC125FT
ABDT
ASDT
ACDT
AFDT
ADLK
ADBK
ADMK
S 1/5
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
S 3/5

3.21 DSP ASSY(4/5)

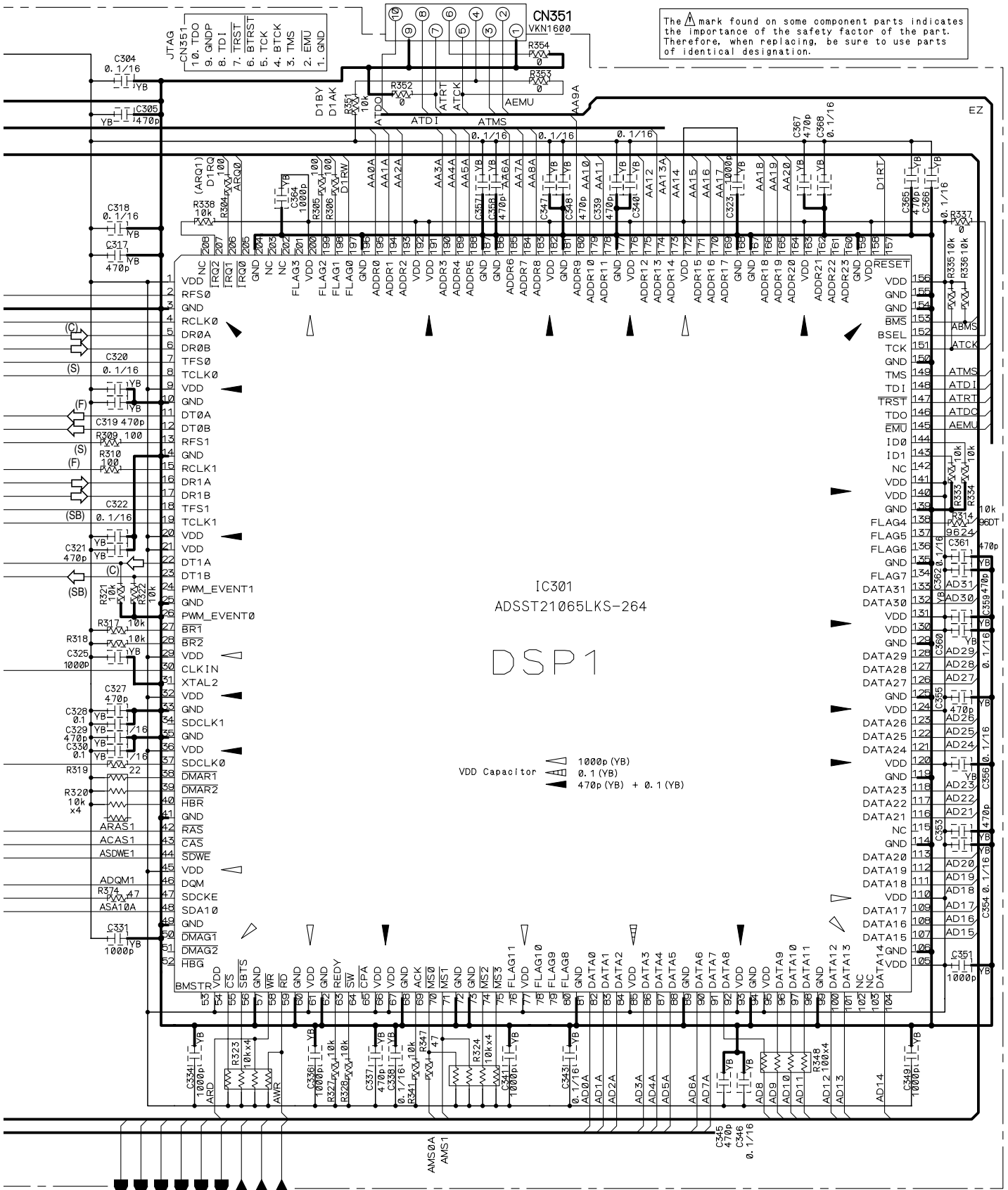


NOTES

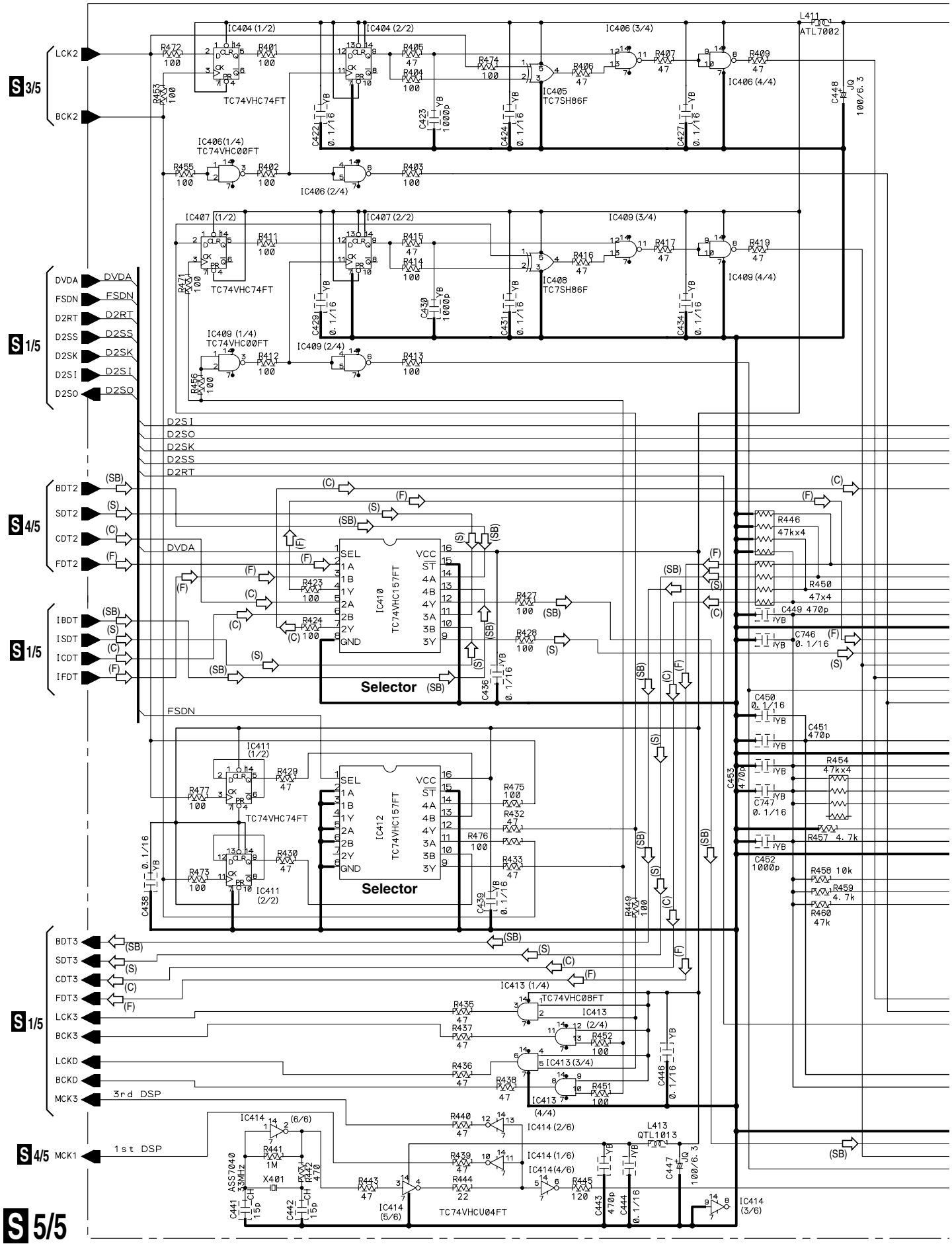
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
   ±0.5%: RS1/16S□□□□D
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

※Parts or parts block marked by "*" or "STBY" are standby.

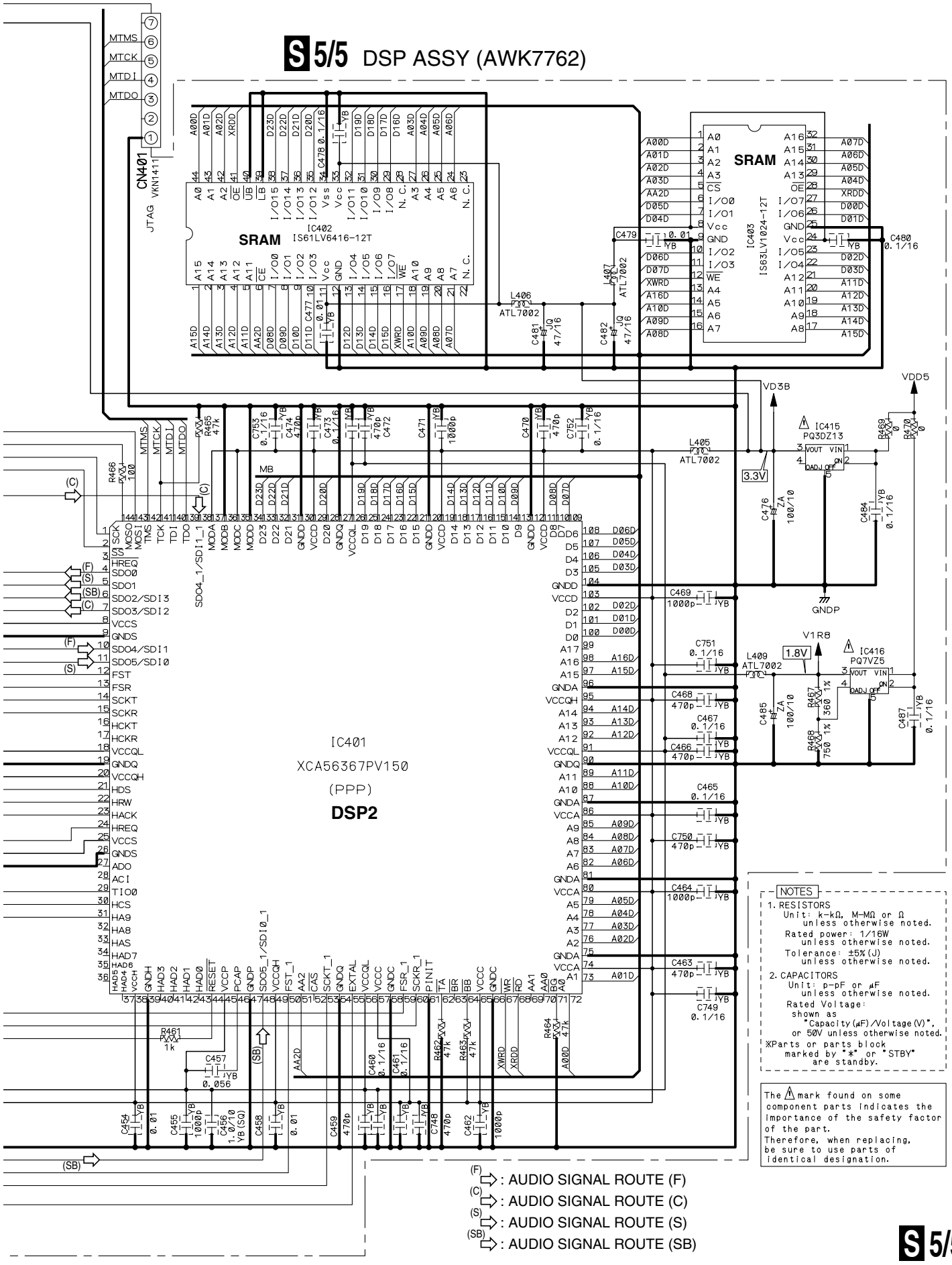
S 4/5


CN351
VKN1600
JTAG
CN351
10. TDO
9. GNDP
8. TDI
7. TRST
6. BTRST
5. TCK
4. BTCK
3. TMS
2. EMU
1. GND
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
IC301
ADSST21065LKS-264
DSP1
VDD Capacitor
1000p (YB)
0.1 (YB)
470p (YB) + 0.1 (YB)
(F) : AUDIO SIGNAL ROUTE (F)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)
: The power supply is shown with the marked box.
S 1/5
S 4/5

3.22 DSP ASSY(5/5)



S 5/5 DSP ASSY (AWK7762)



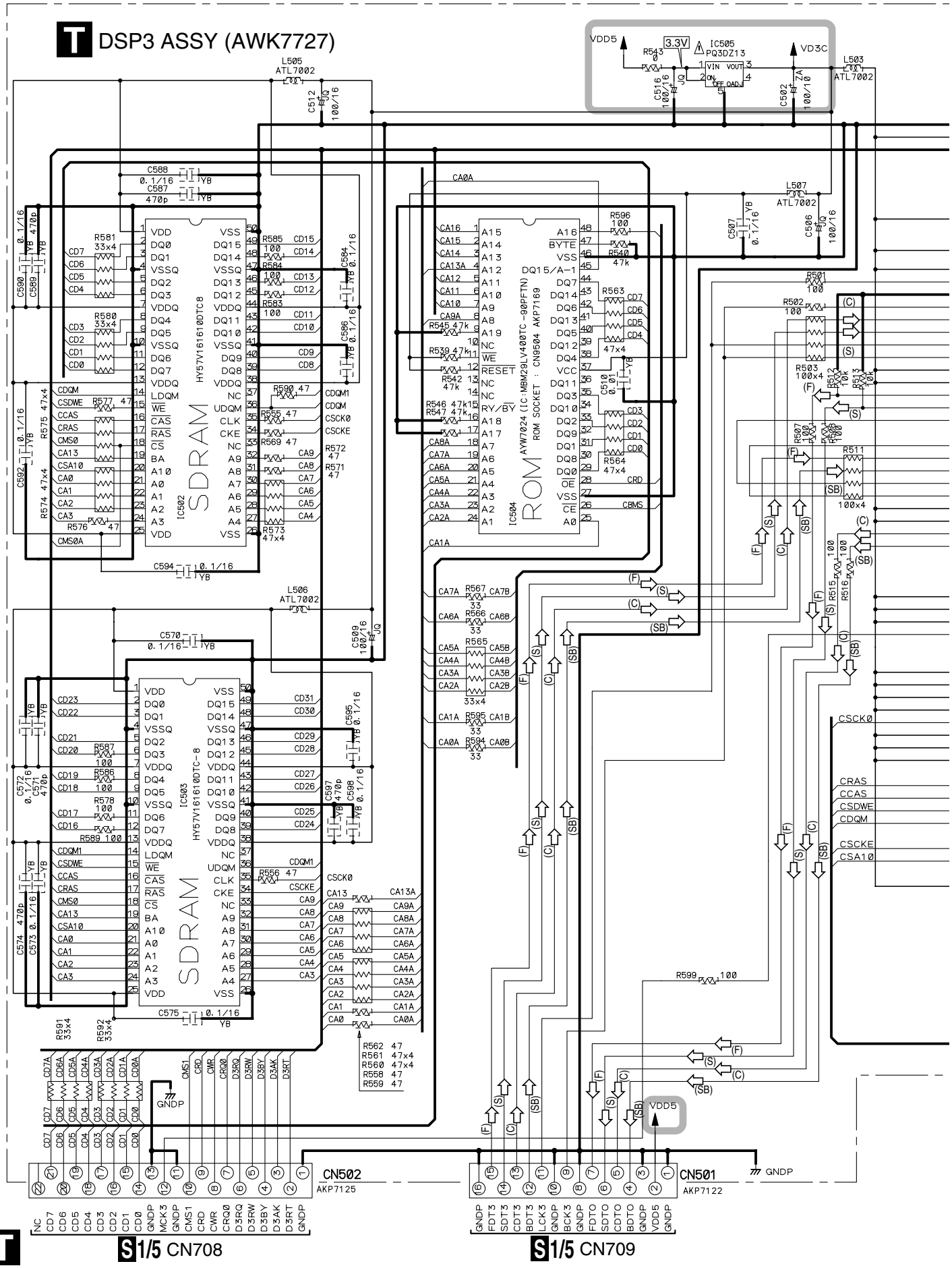
NOTES

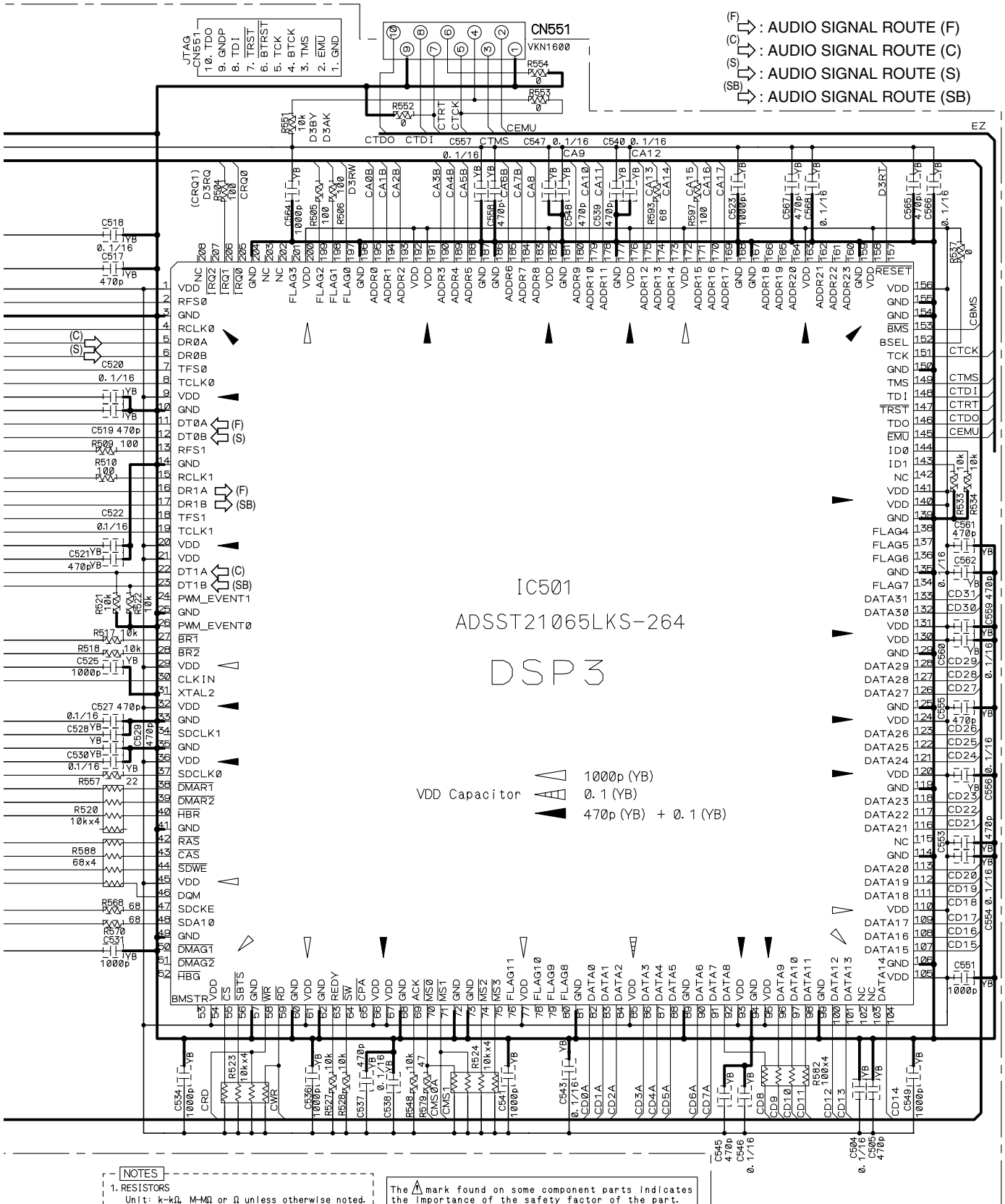
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

※Parts or parts block marked by "*" or "STBY" are standby.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.
Therefore, when replacing, be sure to use parts of identical designation.

3.23 DSP3 ASSY





NOTES

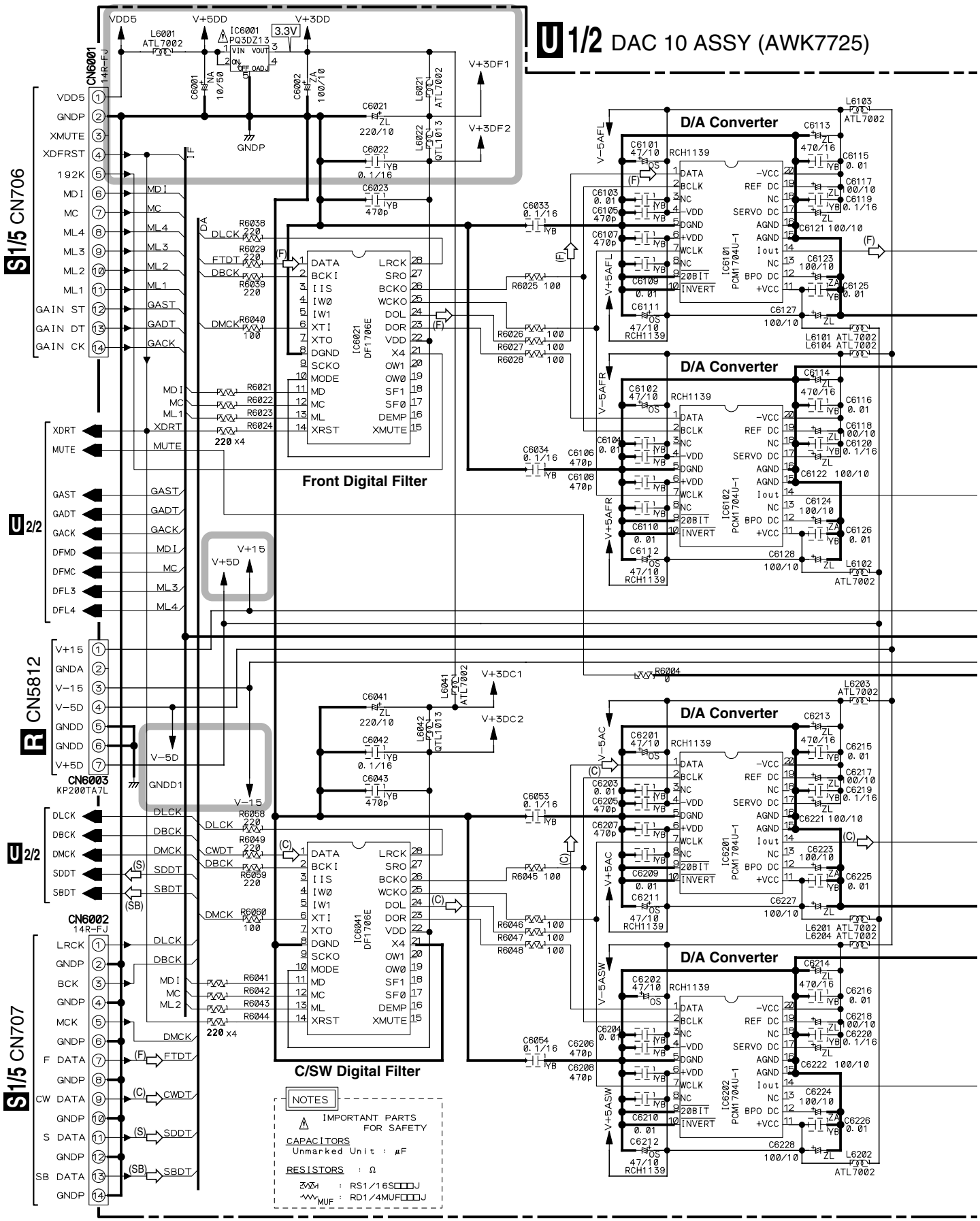
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
   ±0.5% : RS1/16S□□□□D
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage:
   shown as "Capacity(μF)/Voltage(V)",
   or 50V unless otherwise noted.

※Parts or parts block marked by "*" or "STBY" are standby.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

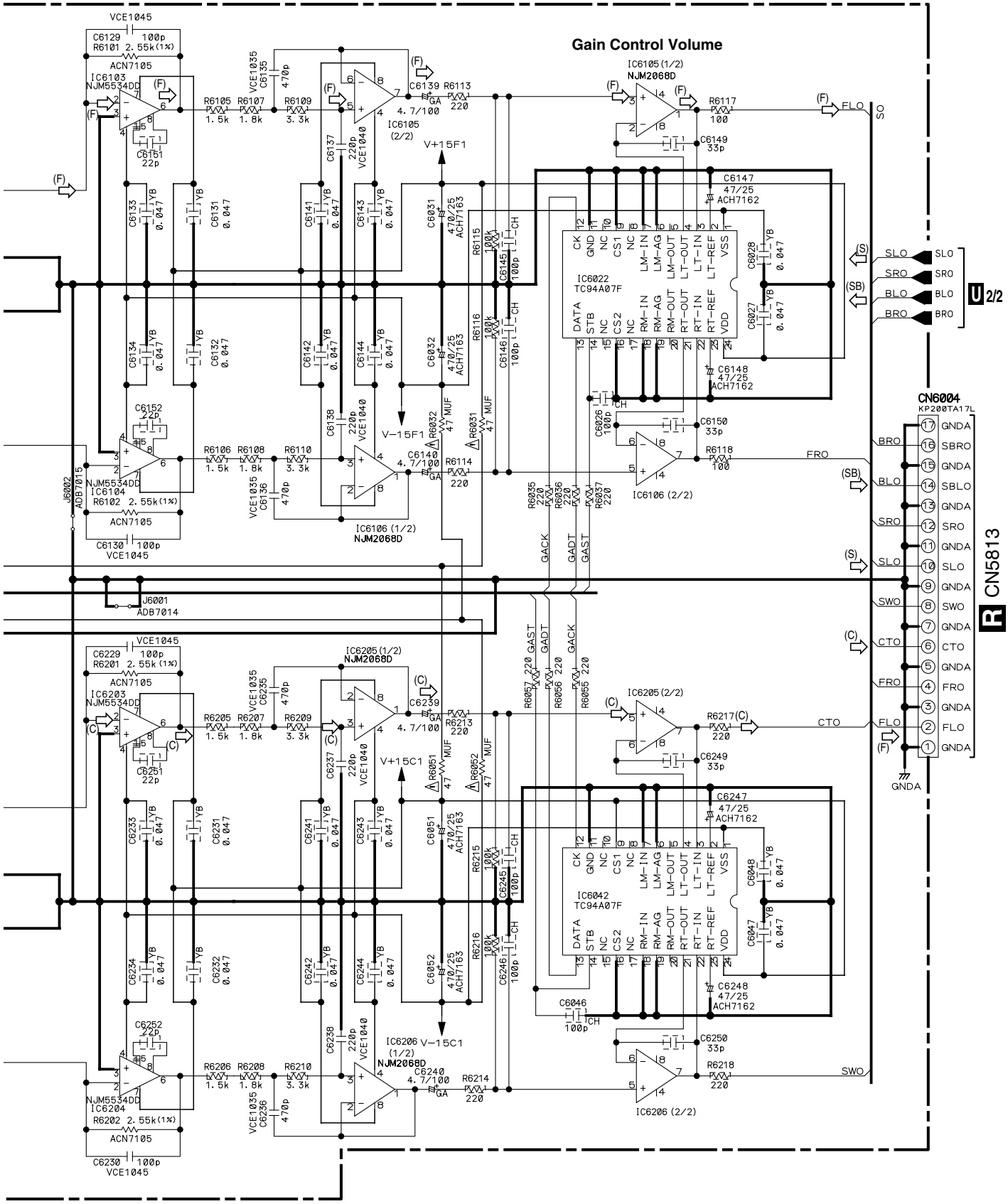
: The power supply is shown with the marked box.

3.24 DAC10 ASSY(1/2)

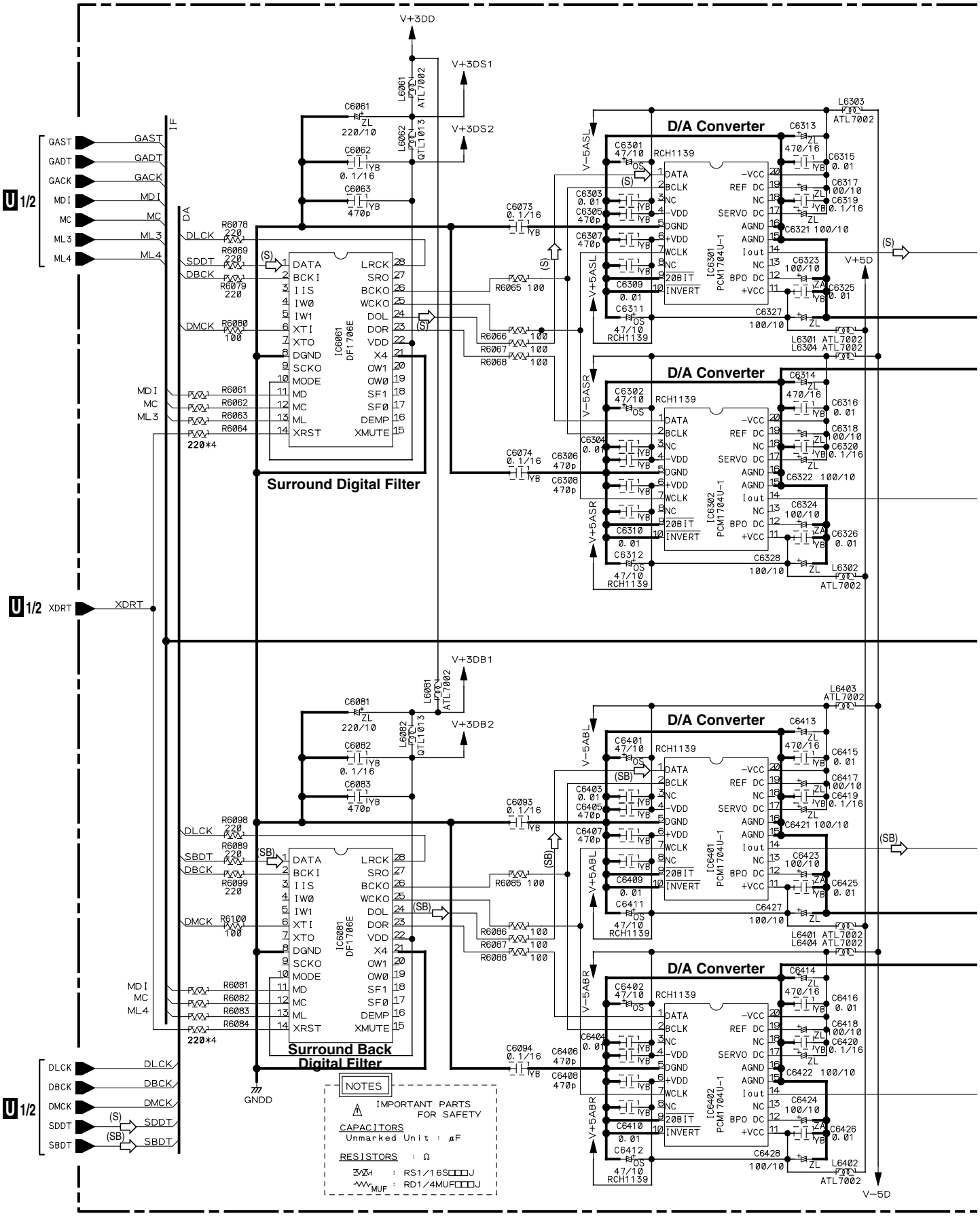


(F) : AUDIO SIGNAL ROUTE (F)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)

: The power supply is shown with the marked box.



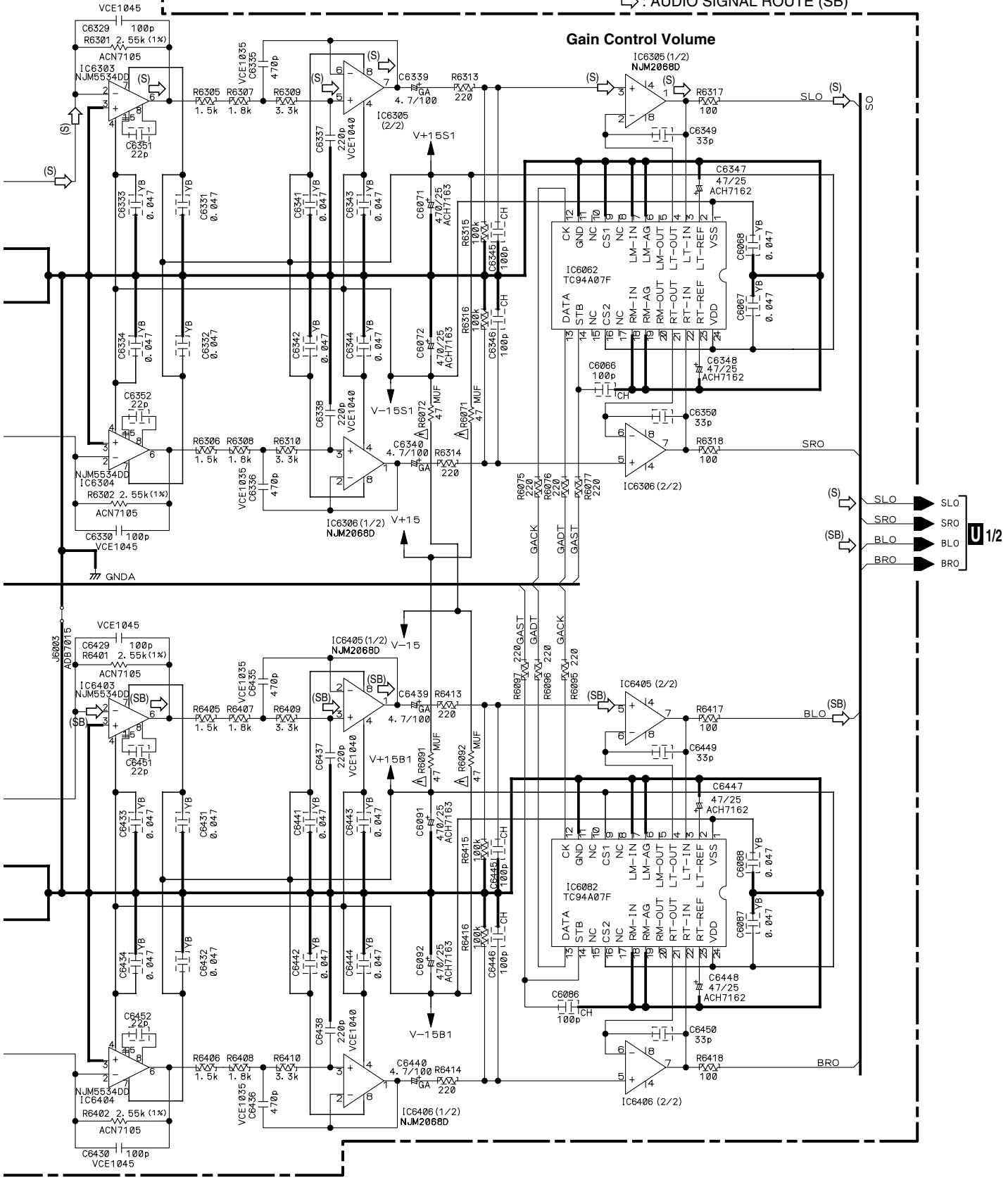
3.25 DAC10 ASSY(2/2)



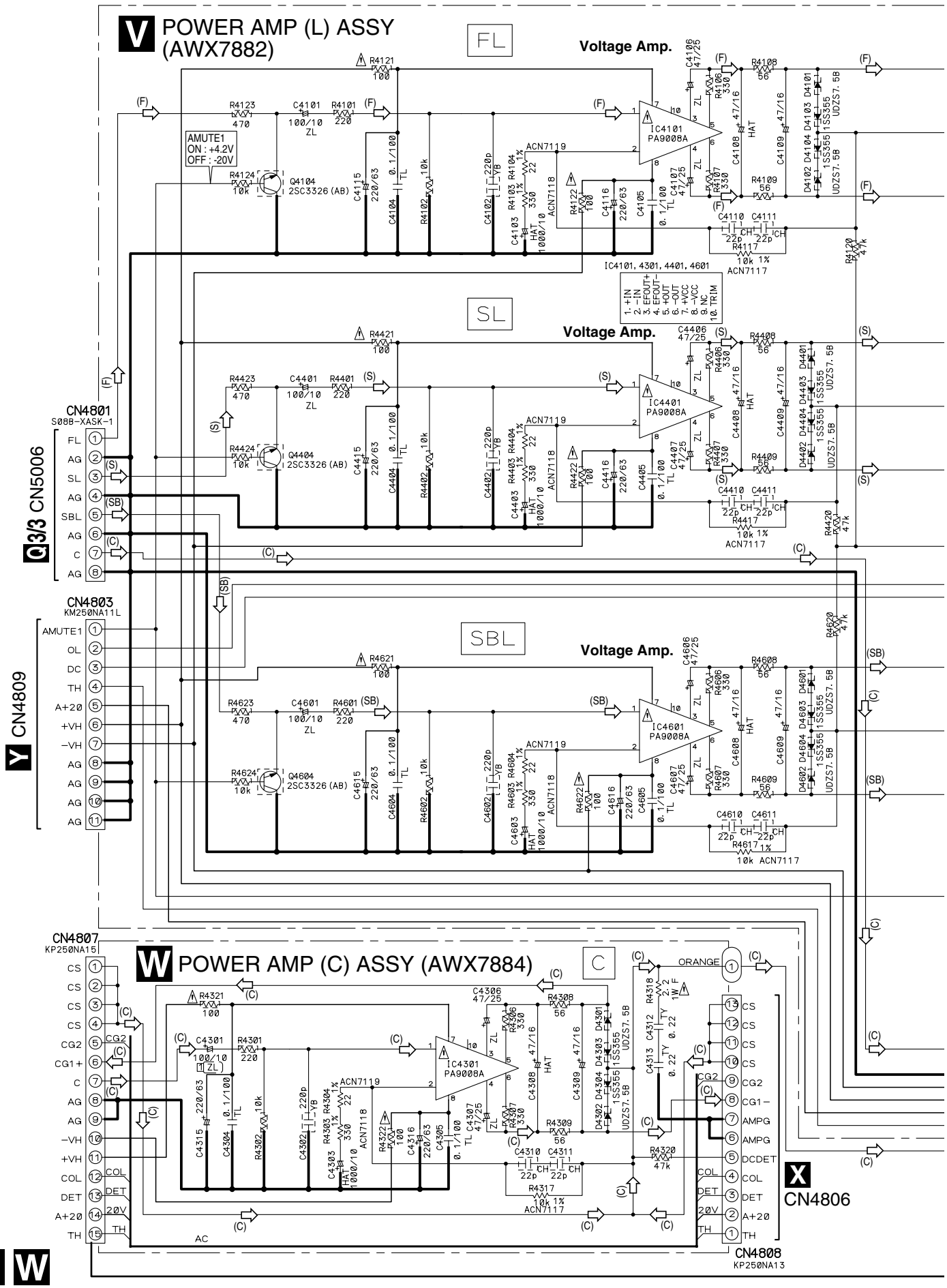
U 2/2

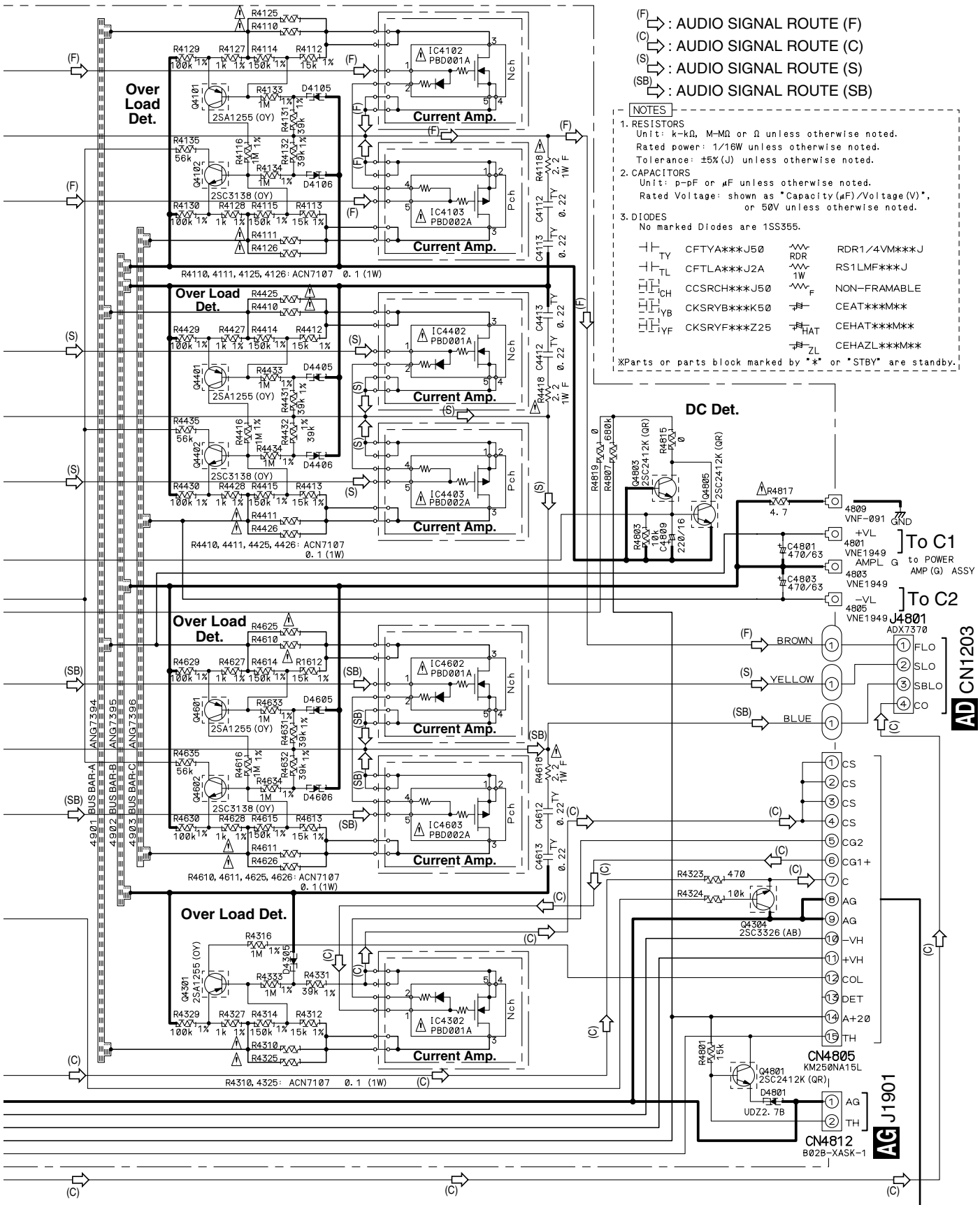
U 2/2 DAC 10 ASSY (AWK7725)

(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)

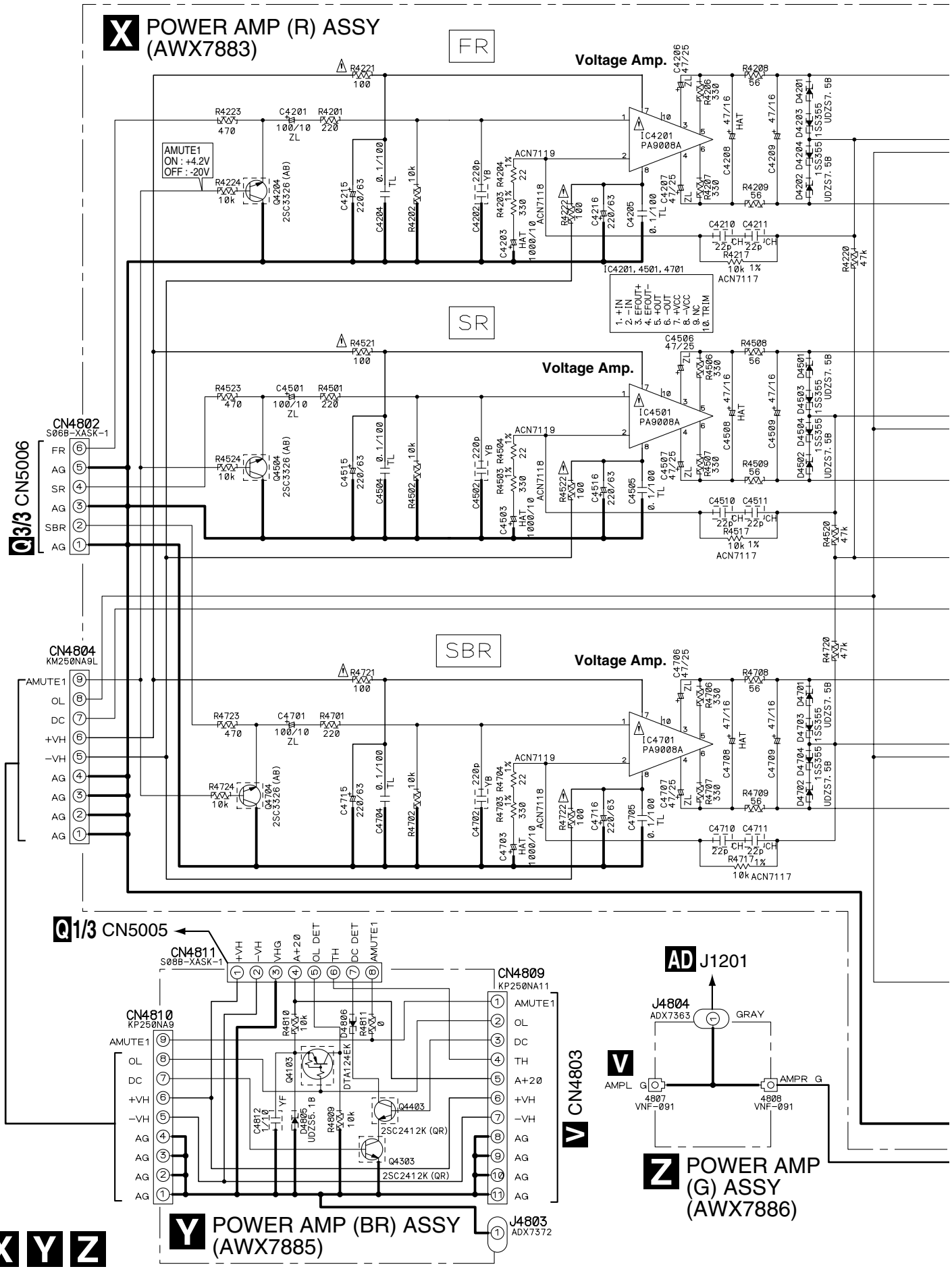


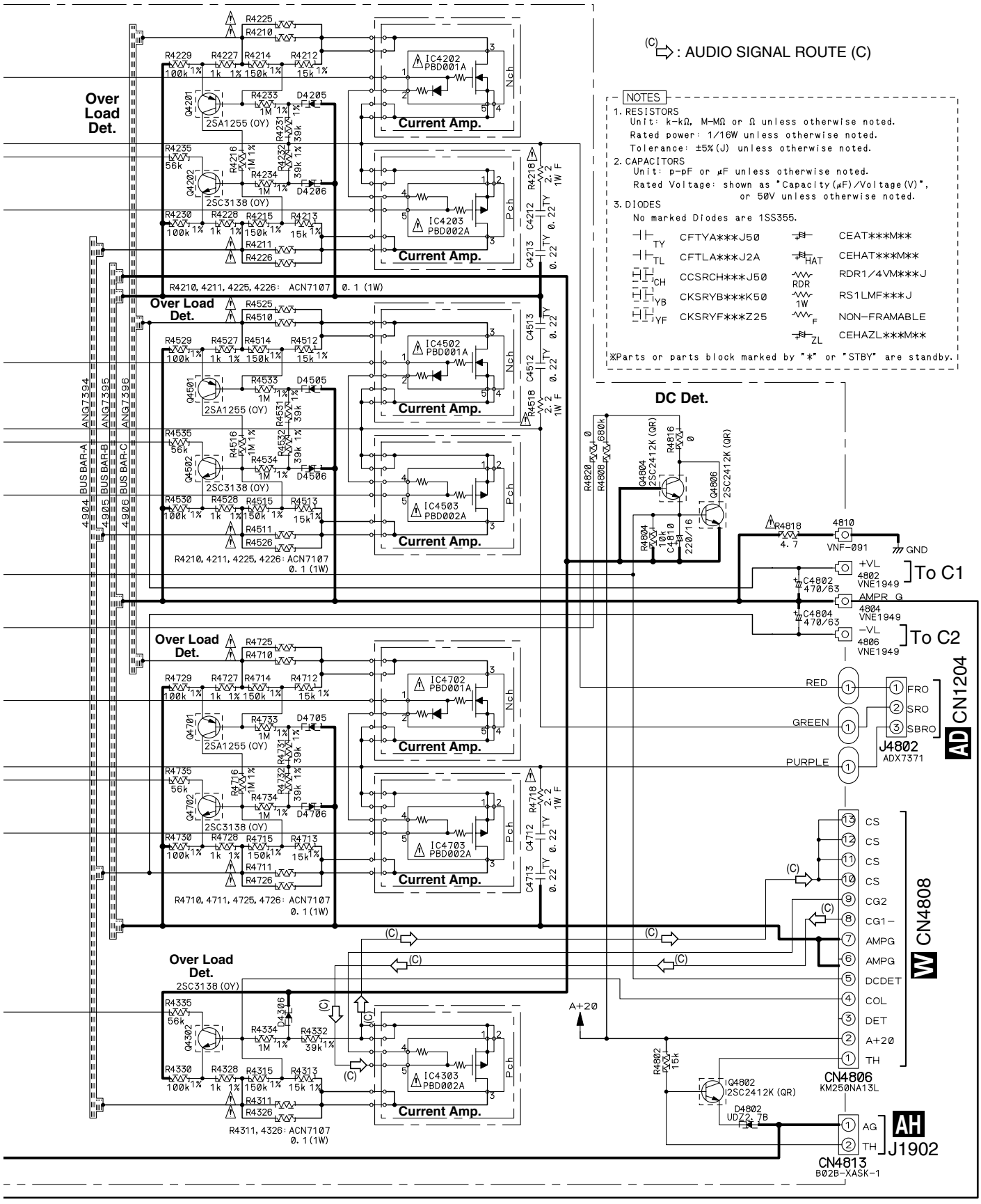
3.26 POWER AMP(L) and POWER AMP(C) ASSYS




(F) : AUDIO SIGNAL ROUTE (F)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)
NOTES
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
3. DIODES
No marked Diodes are 1SS355.
CFTYA***J50
CFTLA***J2A
CCSRCH***J50
CKSRYB***K50
CKSRYF***Z25
RDR1/4VM***J
RS1LMF***J
NON-FRAMABLE
CEAT***M**
CEHAT***M**
CEHAZL***M**
※Parts or parts block marked by "*" or "STBY" are standby.
Over Load Det.
Current Amp.
IC4102 PBD001A
IC4103 PBD002A
IC4402 PBD001A
IC4403 PBD002A
IC4602 PBD001A
IC4603 PBD002A
IC4302 PBD001A
R4110, 4111, 4125, 4126: ACN7107 0.1 (1W)
R4410, 4411, 4425, 4426: ACN7107 0.1 (1W)
R4610, 4611, 4625, 4626: ACN7107 0.1 (1W)
R4310, 4325: ACN7107 0.1 (1W)
DC Det.
To C1
to POWER AMP(G) ASSY
To C2
J4801
ADX7370
CN1203
AD
BROWN
YELLOW
BLUE
FLO
SLO
SBLO
CO
CN4805
KM250NA15L
CN4812
B02B-XASK-1
J1901
AG
TH
4901 BUS BAR-A ANG7394
4902 BUS BAR-B ANG7395
4903 BUS BAR-C ANG7396
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

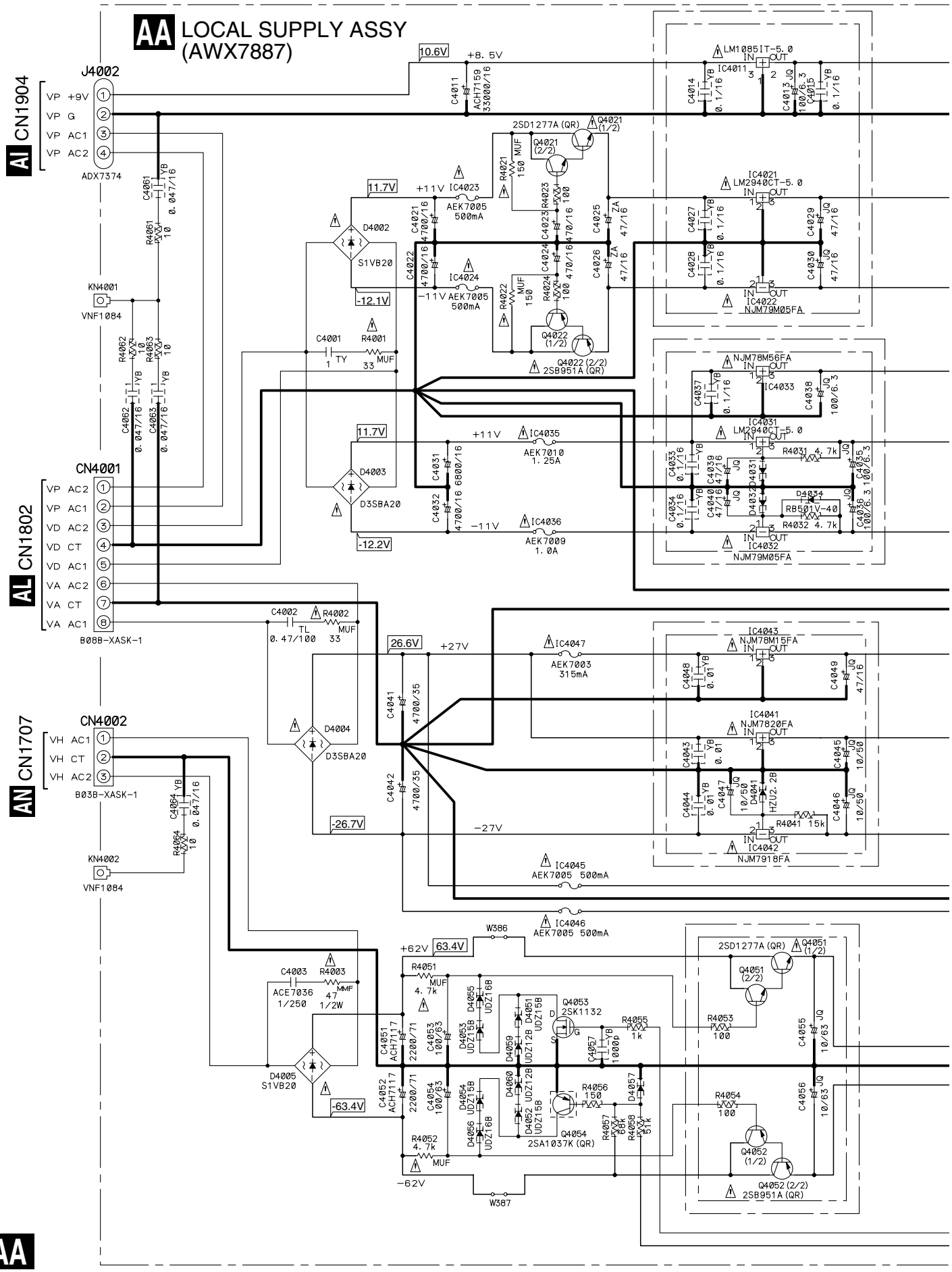
3.27 POWER AMP(R), POWER AMP(BR) and POWER AMP(G) ASSYS

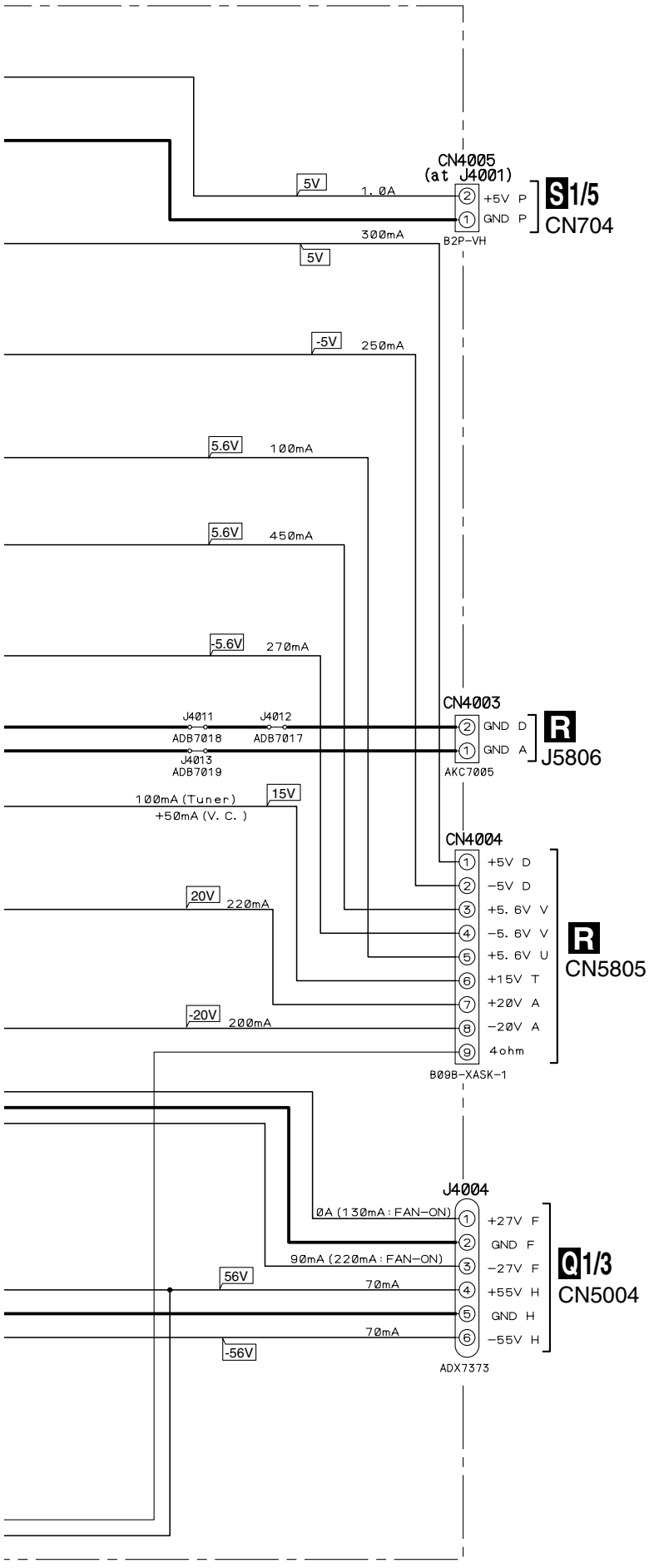




The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

3.28 LOCAL SUPPLY ASSY





CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.315 FOR IC4047 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.500 FOR IC4023 AND IC4024 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.500 FOR IC4045 AND IC4046 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491001 FOR IC4036 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 4911.25 FOR IC4035 MFD, BY LITTELFUSE INC.

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
   MUF RD1/8MUF***J MMF RD1/2MMF***J

2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   TY CFTYA***J50 CEAT***M**
   TL CFTLA***J2A ZA CEHAZA***M**
   YB CKSRYB***K** JQ CEJQ***M**

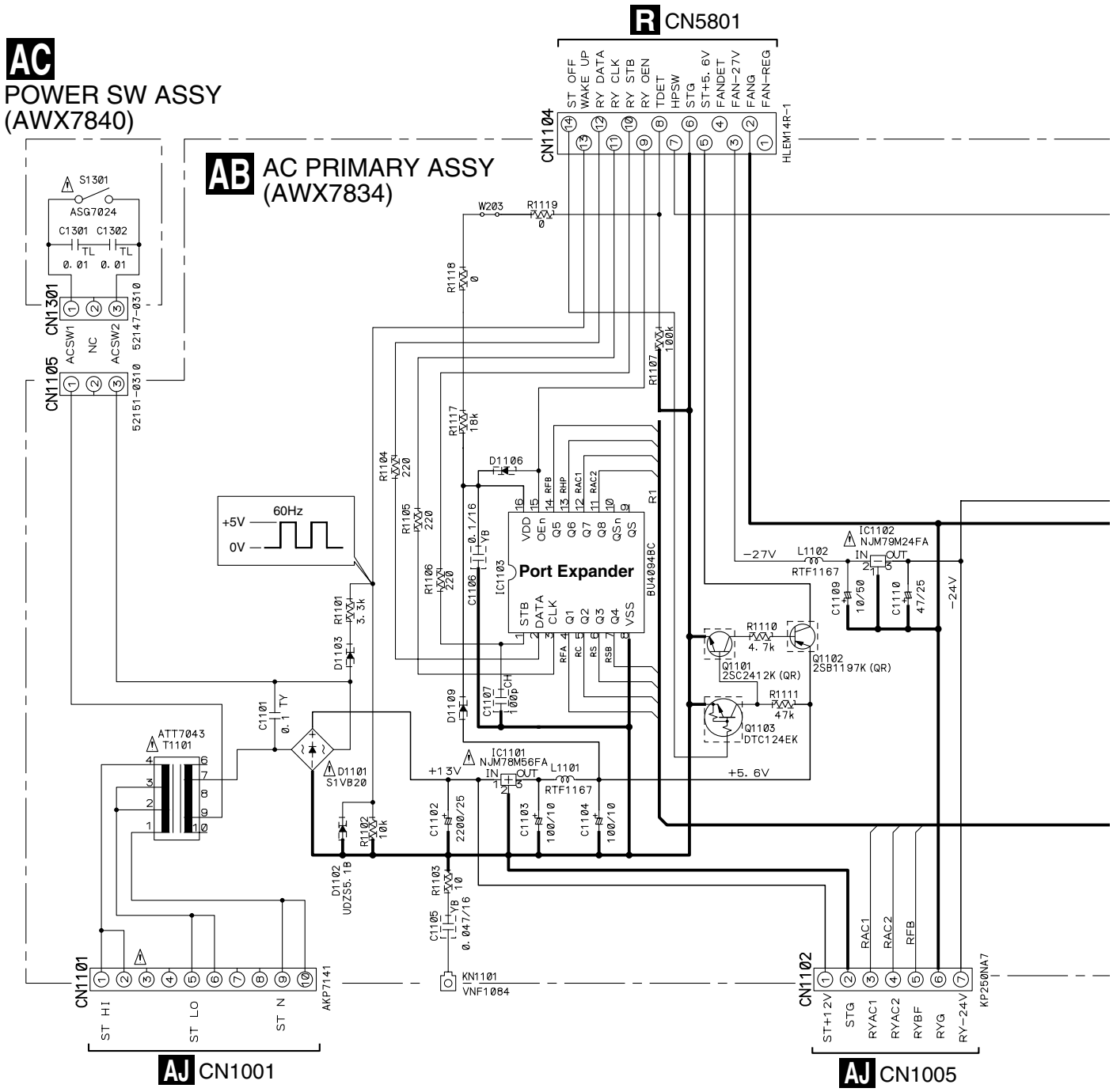
3. DIODES
   No marked Diodes are 1SS355.

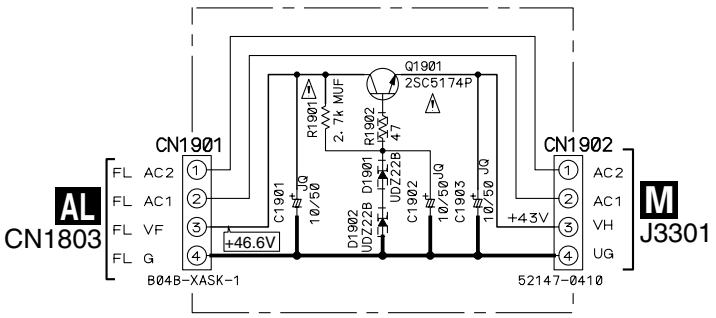
※Parts or parts block marked by "*" or "STBY" are standby.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

AA

3.29 AC PRIMARY, POWER SW, SP(A), FL SUPPLY and STANDBY ASSYS





AE FL SUPPLY ASSY
(AWX7871)

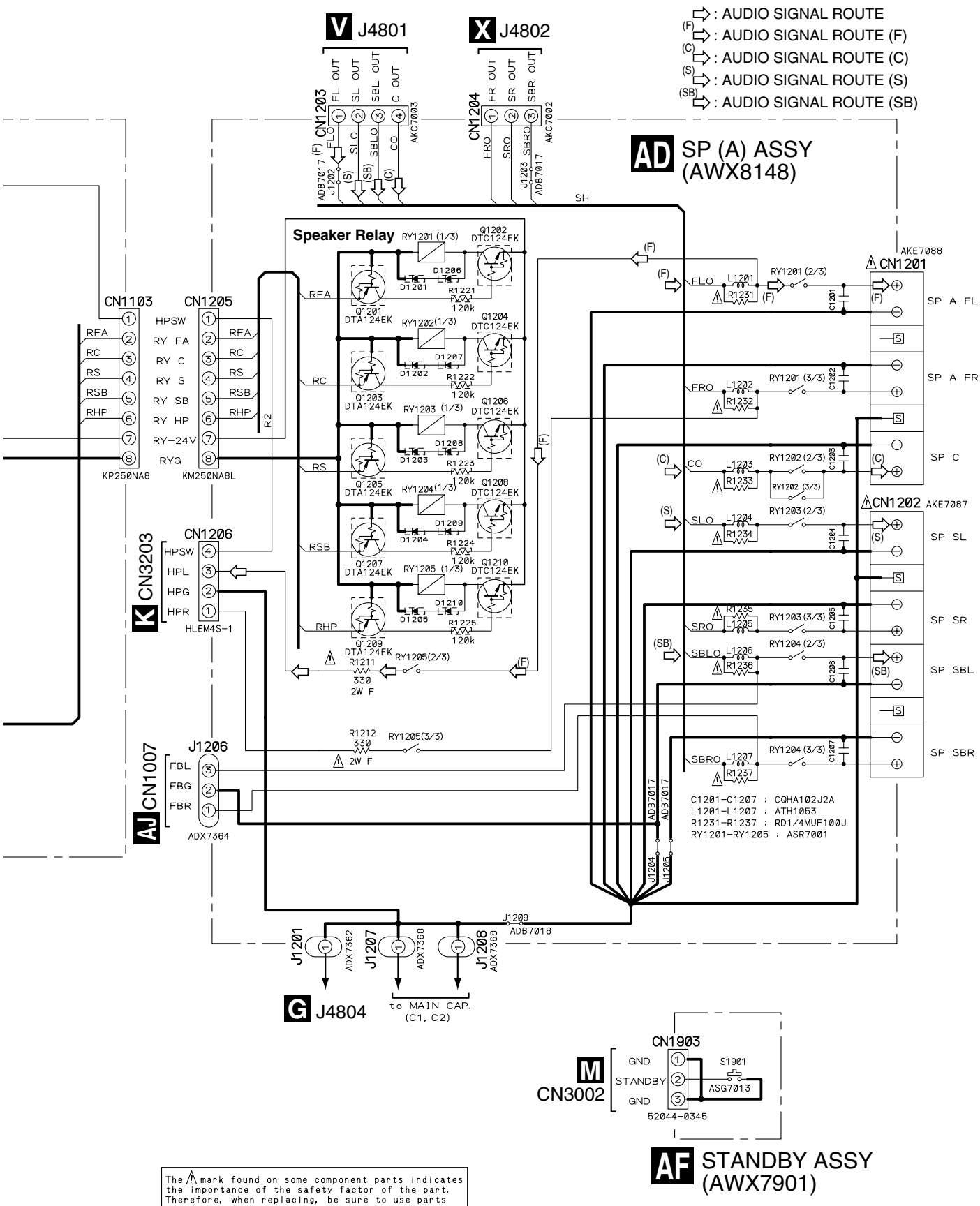
NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
3. DIODES
   No marked Diodes are 1SS355.
4. VOLTAGE
   Indicated in DC Voltage.

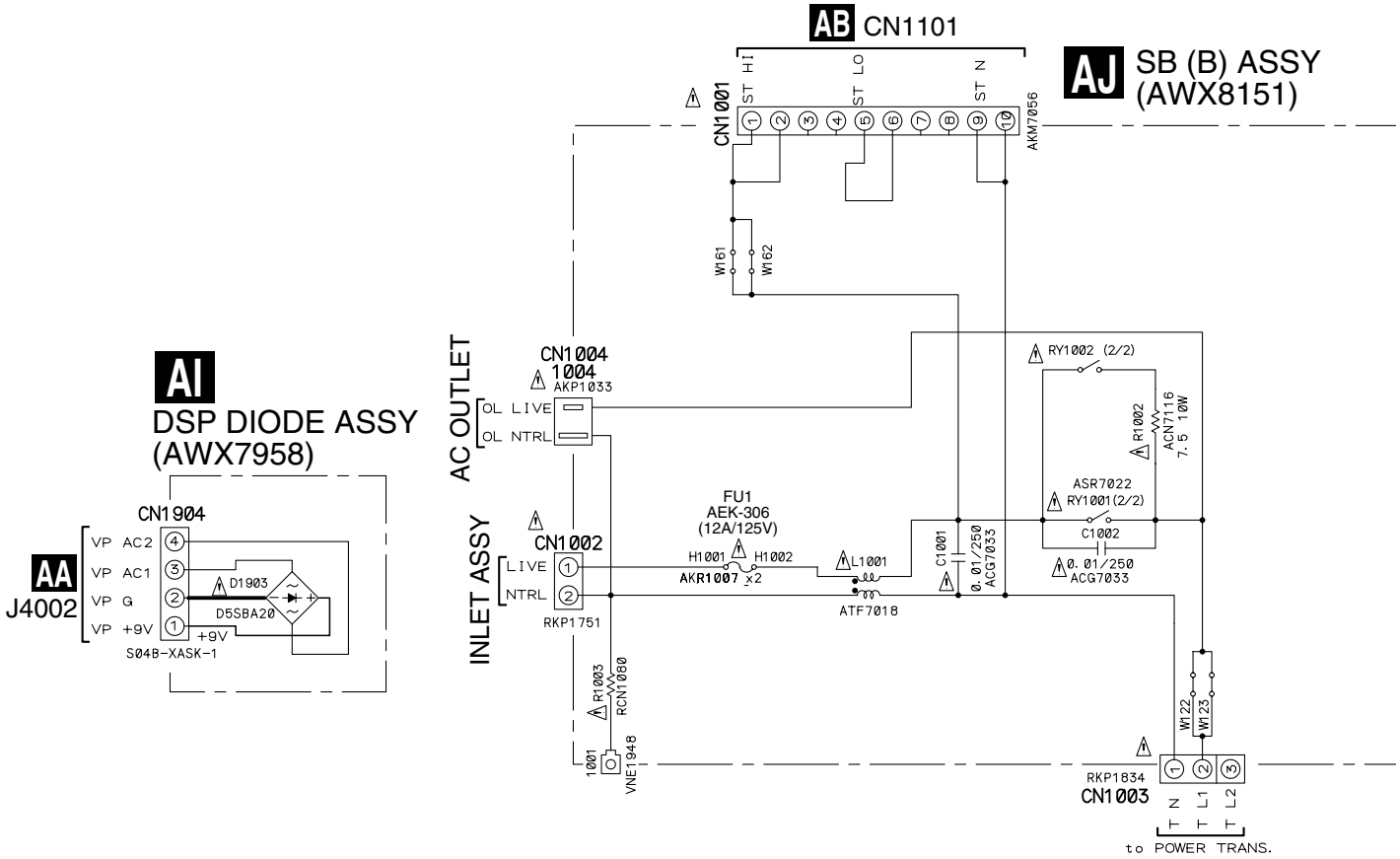
	RS1/16S***J	CH	CCSRCH***J**
TY	CFTYA***J50	YB	CKSRYB***K**
TL	CFTLA***J**		CEAT***M**
		JQ	CEJQ***M**

※Parts or parts block marked by "*" or "STBY" are standby.

AB AC AE


: AUDIO SIGNAL ROUTE
(F) : AUDIO SIGNAL ROUTE (F)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)
V J4801
X J4802
CN1203
CN1204
AD SP (A) ASSY (AWX8148)
Speaker Relay
CN1103
CN1205
CN1206
CN3203
CN1007
J1206
CN1201
CN1202
J1201
J1207
J1208
J1209
G J4804
to MAIN CAP. (C1, C2)
CN1903
M CN3002
S1901
ASG7013
AF STANDBY ASSY (AWX7901)
SP A FL
SP A FR
SP C
SP SL
SP SR
SP SBL
SP SBR
C1201-C1207 ; CQHA102J2A
L1201-L1207 ; ATH1053
R1231-R1237 ; RD1/4MUF100J
RY1201-RY1205 ; ASR7001
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

3.30 POSISTER (L) (R), DSP DIODE, SP (B), DIODE, FUSE AND TARANS (A) (B)



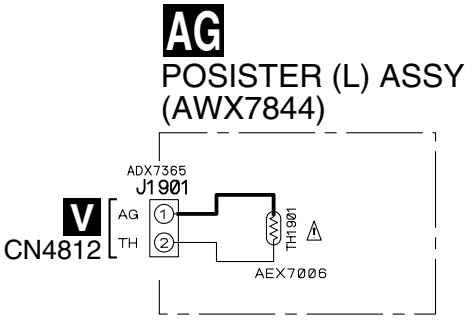
NOTES

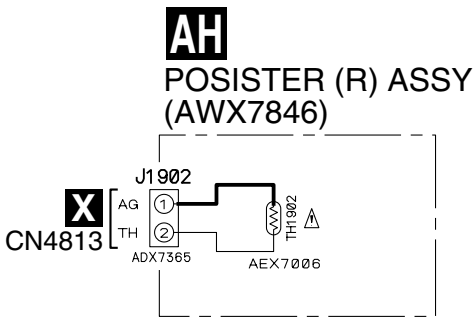
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
3. DIODES
   No marked Diodes are 1SS355.
4. VOLTAGE
   Indicated in DC Voltage.

MUF	RD1/8MUF***J	TY	CFTYA***J50
MMF	RD1/2MMF***J	HA	CQHA***J**
			CEAT***M**
		JQ	CEJQ***M**

※Parts or parts block marked by "*" or "STBY" are standby.

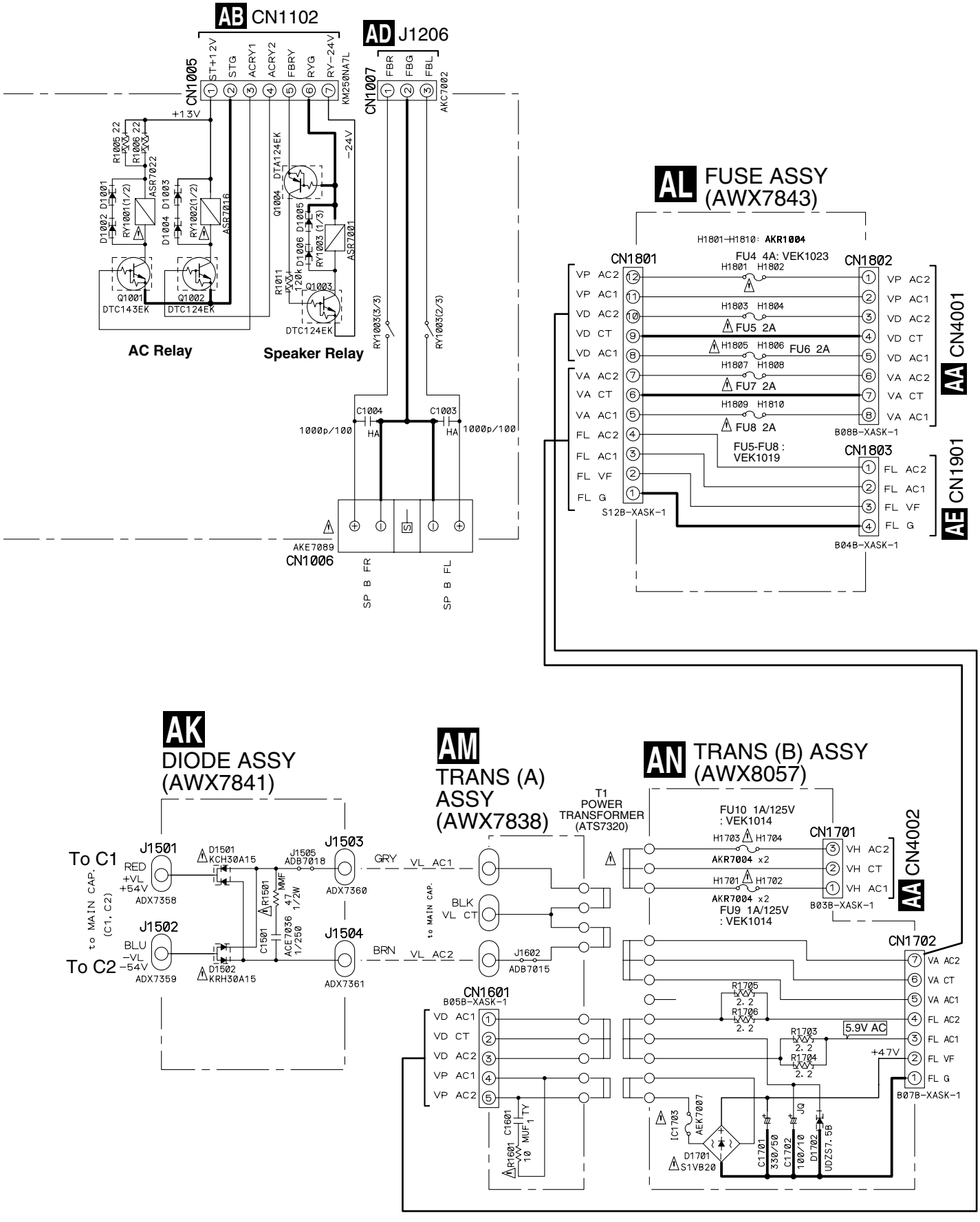
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.



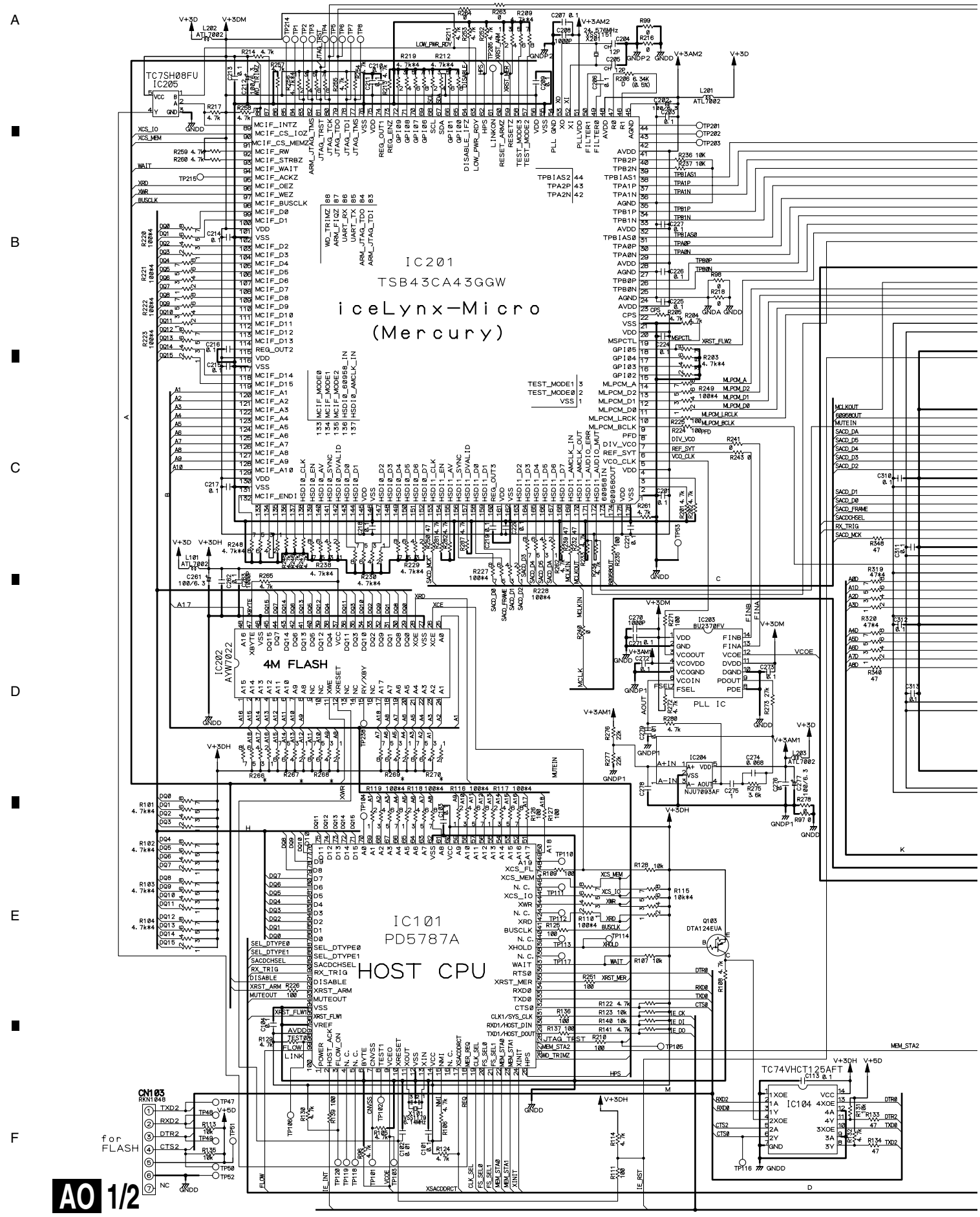


• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.


AB CN1102
AD J1206
CN1005
ST+12V
STG
ACRY1
ACRY2
FBRY
RYG
RY-24V
KM250NA7L
CN1007
FBR
FBG
FBL
AKC7002
+13V
-24V
R1005 22
R1006 22
ASR7022
D1001
D1002
D1003
D1004
RY1001(1/2)
RY1002(1/2)
ASR7016
Q1001
DTC143EK
Q1002
DTC124EK
AC Relay
Q1004
DTA124EK
D1005
D1006
RY1003 (1/3)
ASR7001
R1011
120k
Q1003
DTC124EK
Speaker Relay
RY1003(3/3)
RY1003(2/3)
C1004
C1003
1000p/100
HA
AKE7089
CN1006
SP B FR
SP B FL
AL FUSE ASSY
(AWX7843)
H1801–H1810: AKR1004
CN1801
FU4 4A: VEK1023
CN1802
VP AC2
VP AC1
VD AC2
VD CT
VD AC1
VA AC2
VA CT
VA AC1
FL AC2
FL AC1
FL VF
FL G
H1801 H1802
H1803 H1804
FU5 2A
H1805 H1806
FU6 2A
H1807 H1808
FU7 2A
H1809 H1810
FU8 2A
S12B-XASK-1
B08B-XASK-1
CN4001
AA
FU5-FU8 :
VEK1019
CN1803
B04B-XASK-1
CN1901
AE
AK
DIODE ASSY
(AWX7841)
J1501
J1502
J1503
J1504
RED
+VL
+54V
ADX7358
BLU
-VL
-54V
ADX7359
D1501
KCH30A15
D1502
KRH30A15
J1505
ADB7018
ADX7360
ADX7361
R1501
4.7
MMF
1/2W
C1501
ACE7036
1/250
To C1
To C2
to MAIN CAP.
(C1, C2)
GRY
VL AC1
BRN
VL AC2
BLK
VL CT
to MAIN CAP.
AM
TRANS (A)
ASSY
(AWX7838)
J1602
ADB7015
CN1601
B05B-XASK-1
VD AC1
VD CT
VD AC2
VP AC1
VP AC2
C1601
MUF 1TY
10
R1601
AN TRANS (B) ASSY
(AWX8057)
T1
POWER
TRANSFORMER
(ATS7320)
FU10 1A/125V
: VEK1014
FU9 1A/125V
: VEK1014
CN1701
H1703 H1704
AKR7004 x2
H1701 H1702
AKR7004 x2
VH AC2
VH CT
VH AC1
B03B-XASK-1
CN4002
AA
CN1702
VA AC2
VA CT
VA AC1
FL AC2
FL AC1
FL VF
FL G
B07B-XASK-1
R1705
2.2
R1706
2.2
R1703
2.2
R1704
2.2
5.9V AC
+47V
IC1703
AEK7007
D1701
S1VB20
C1701
330/50
C1702
100/10
D1702
UDZS7.5B
JQ
JL

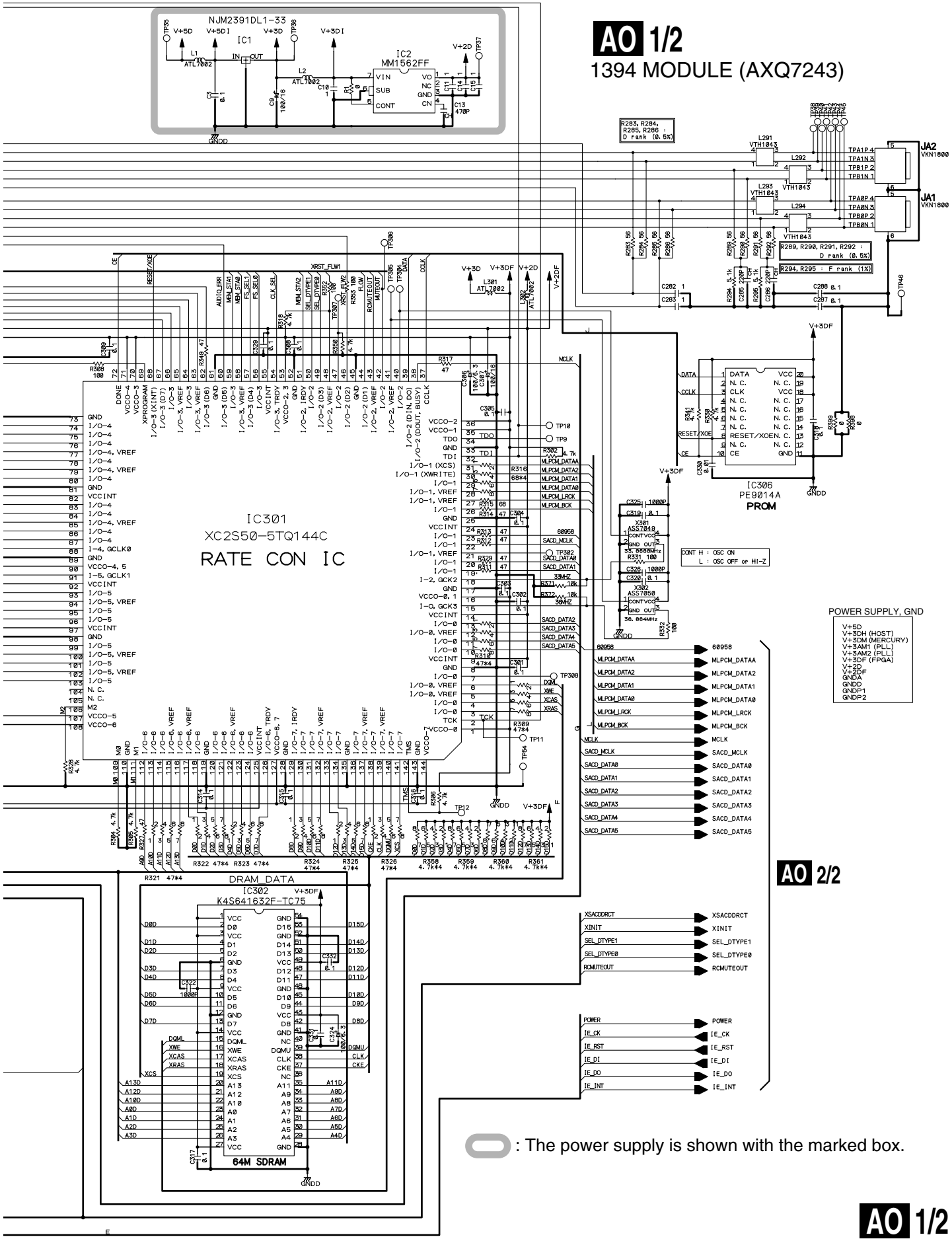
3.31 1394 MODULE(1/2) ASSY



AO 1/2

AO 1/2

1394 MODULE (AXQ7243)

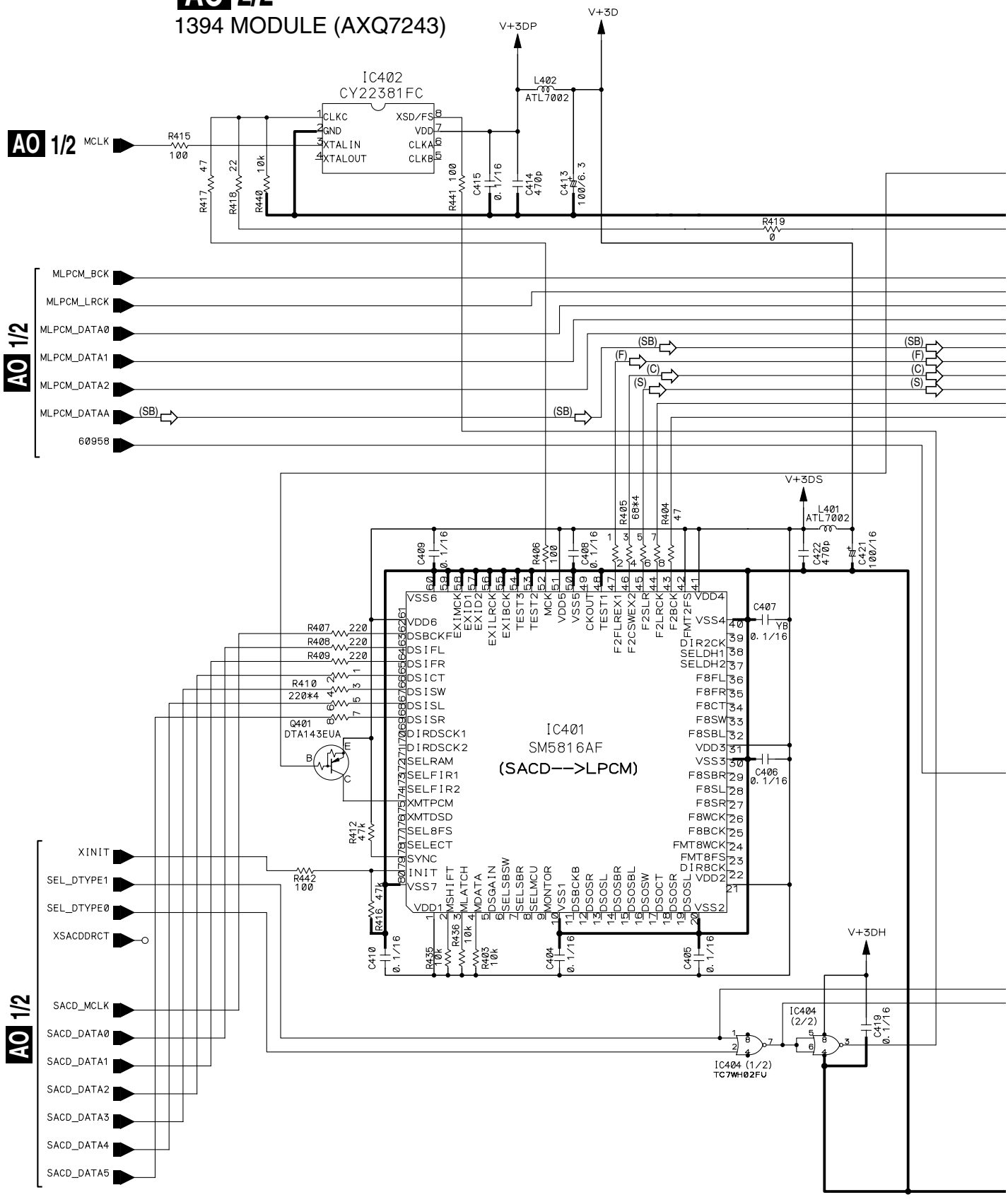


AO 2/2

: The power supply is shown with the marked box.

AO 1/2

3.32 1394 MODULE(2/2) ASSY



NOTES

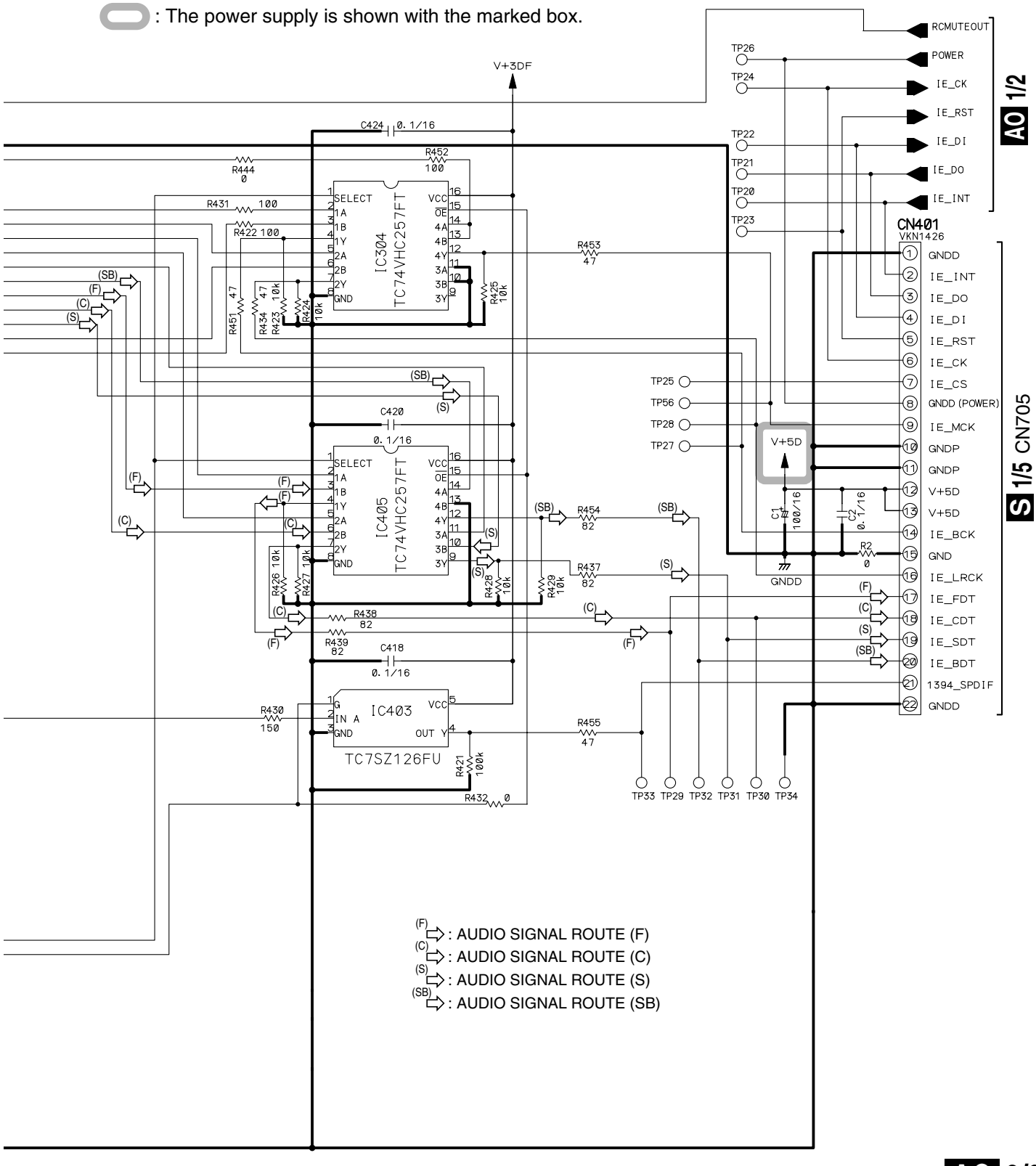
Indicated in "STBY" parts are STANDBY.

CAPACITORS
Unit : p-pF or μF unless otherwise noted.
Ratings : Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage : 50V except for electrolytic capacitors.

100/16:CEV101M16 100/6.3:CEVL101M6R3
⊣⊢ :CKSRYB unless otherwise noted

RESISTORS
Unit : k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power : 1/16W unless otherwise noted.
Tolerance : (J)±5% unless otherwise noted.

: The power supply is shown with the marked box.



AO 2/2

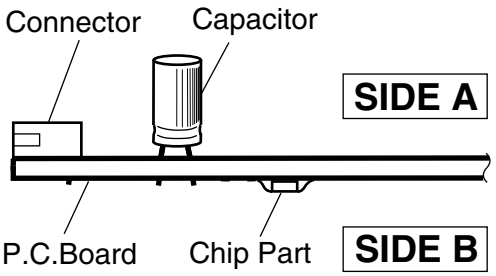
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



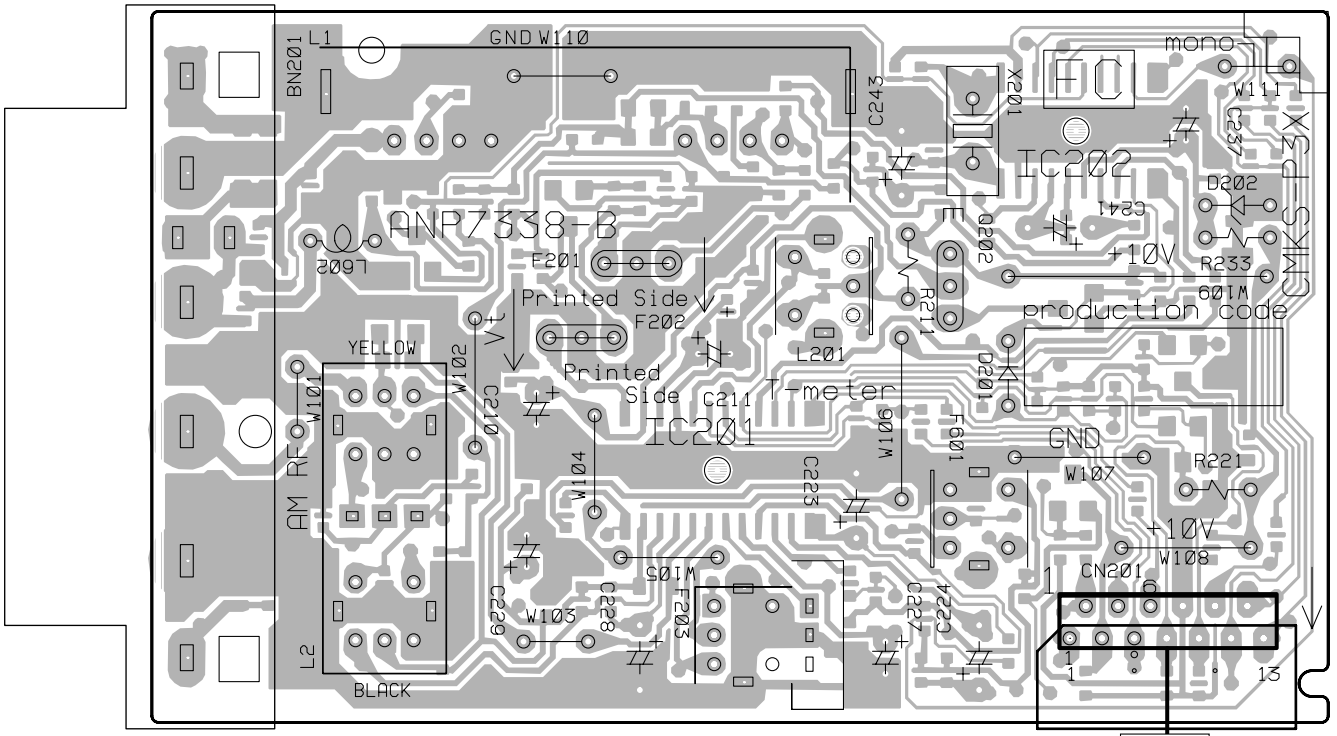
4.1 FM/AM TUNER MODULE

SIDE A

SIDE B

A FM/AM TUNER MODULE

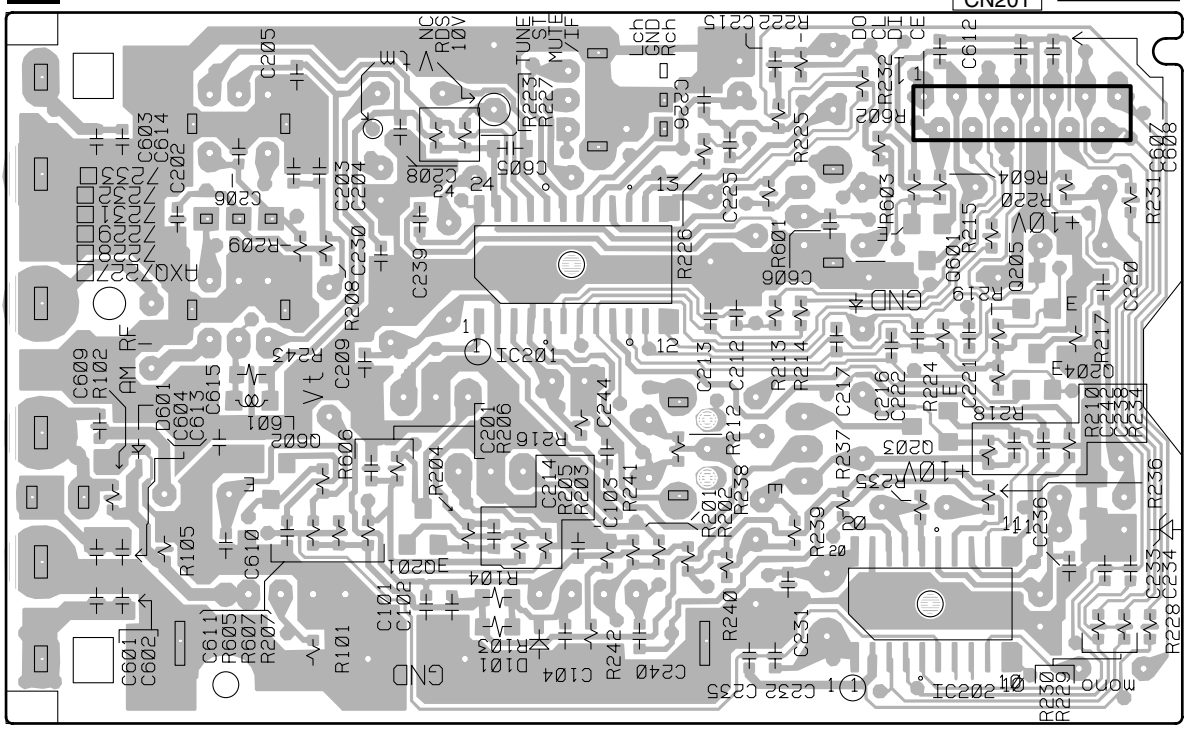
SIDE A



Q202

A FM/AM TUNER MODULE

SIDE B



Q201 IC201 Q203 IC202 Q205 Q204

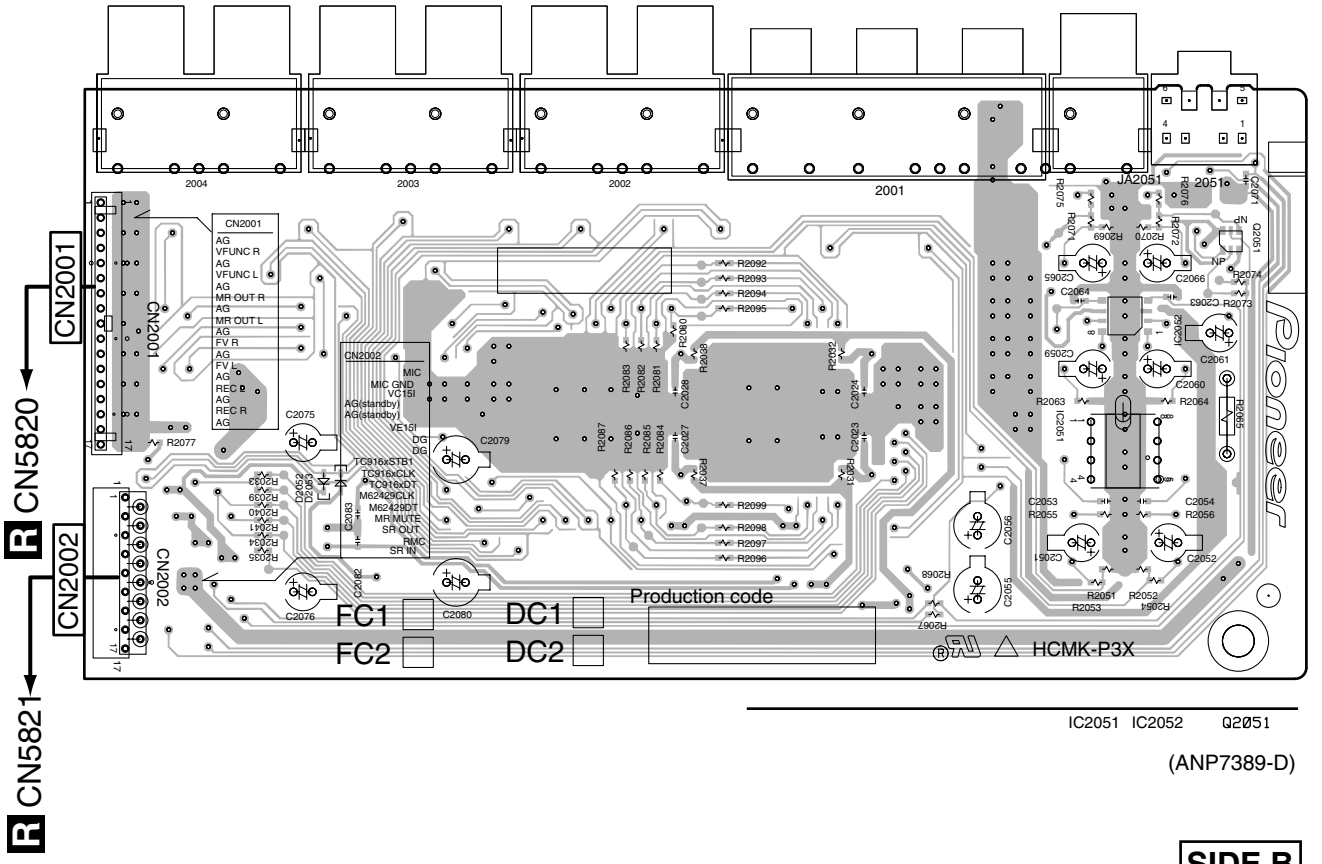
A A

4.2 A/V I/O ASSY

SIDE A **SIDE B**

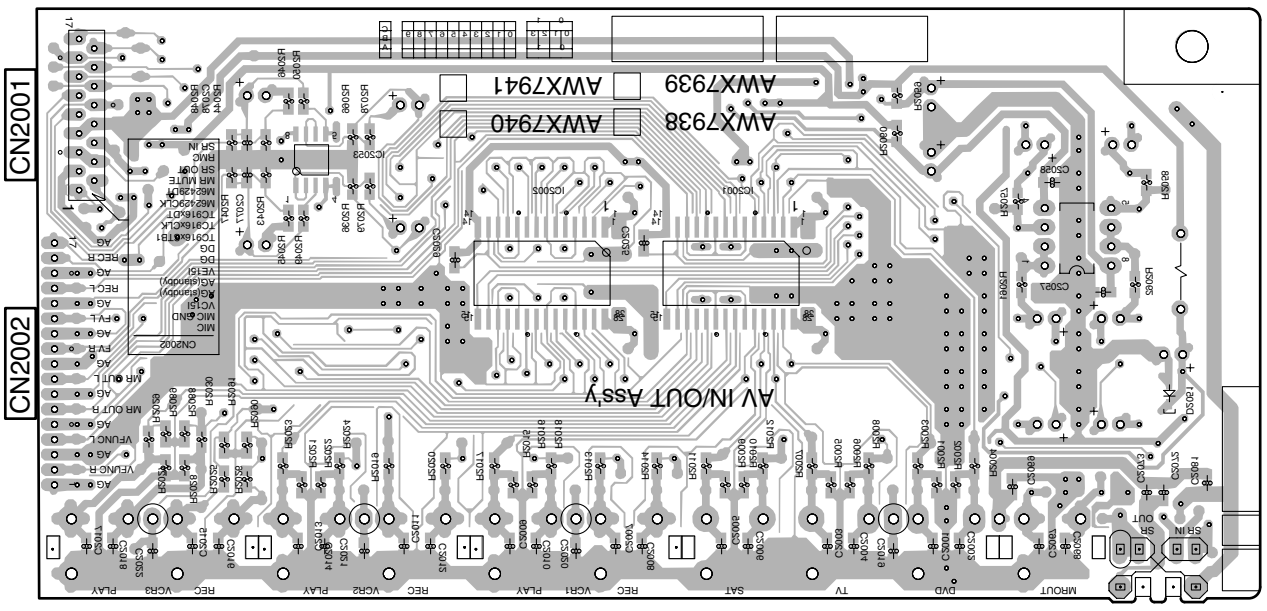
B A/V IN/OUT ASSY

SIDE A



(ANP7389-D)

SIDE B



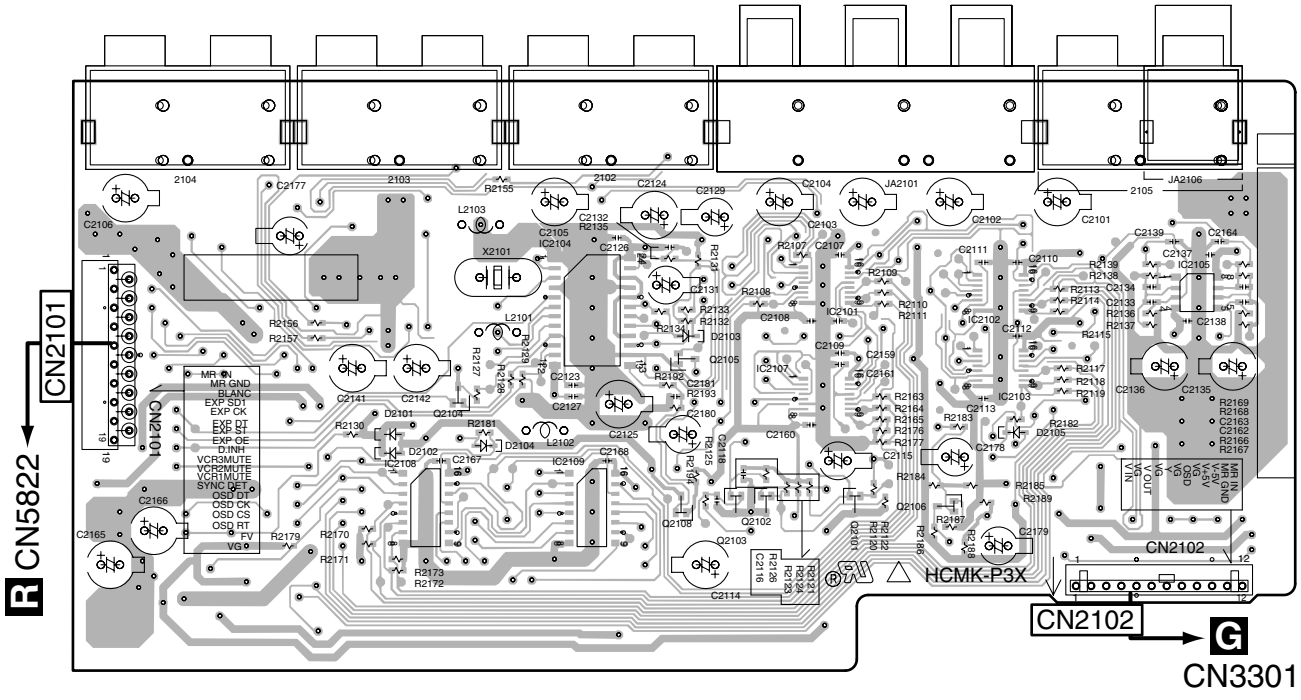
(ANP7389-D)

4.3 COMPOSITE ASSY

SIDE A **SIDE B**

C COMPOSITE ASSY

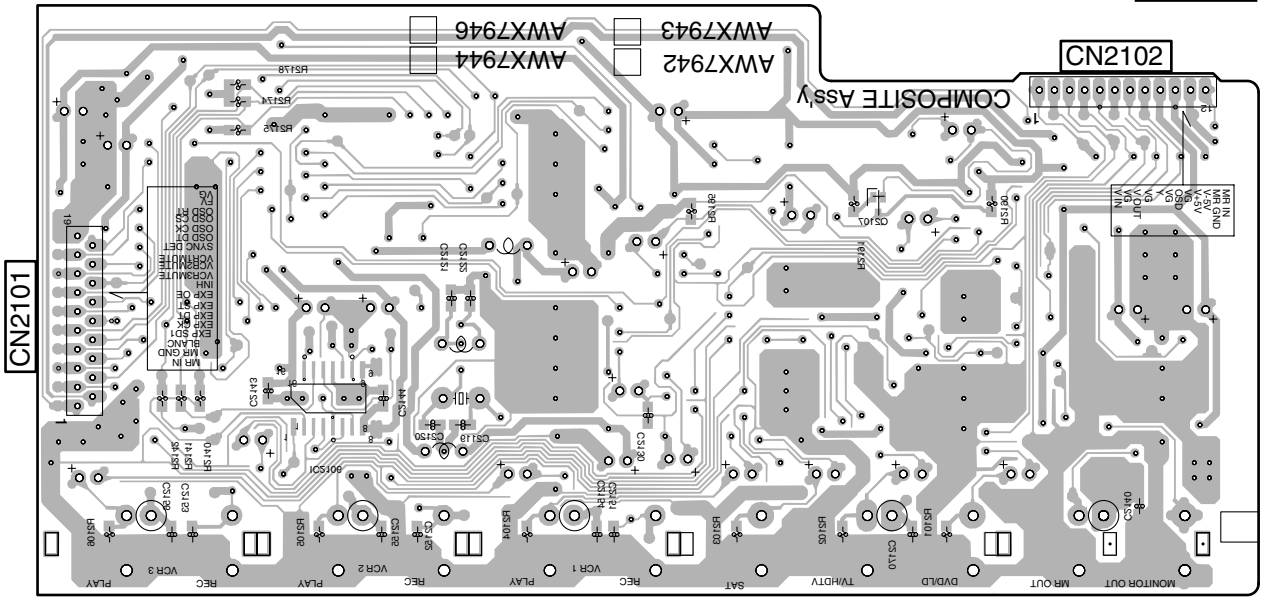
SIDE A



IC2108 Q2104 IC2109 IC2104 Q2108 Q2105 Q2102 Q2103 IC2107 Q2101 IC2101 Q2106 IC2103 IC2102 IC2105

(ANP7389-D)

SIDE B



IC2106 Q2107

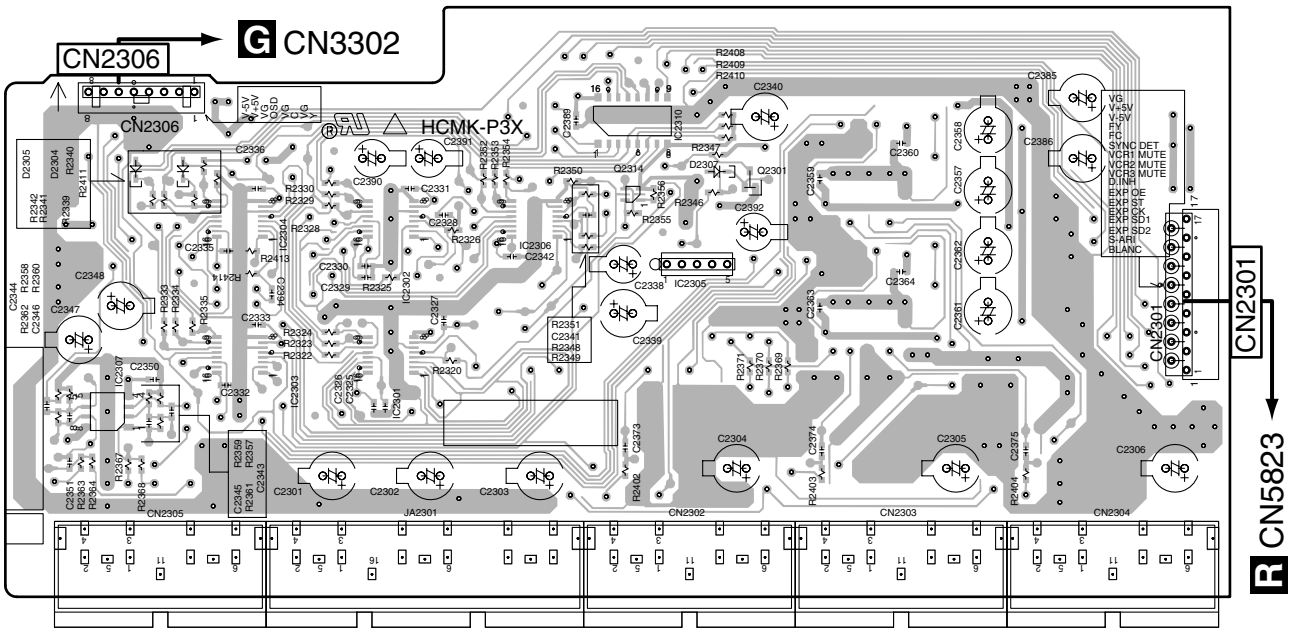
(ANP7389-D)

4.4 S-VIDEO ASSY

SIDE A **SIDE B**

D S-VIDEO ASSY

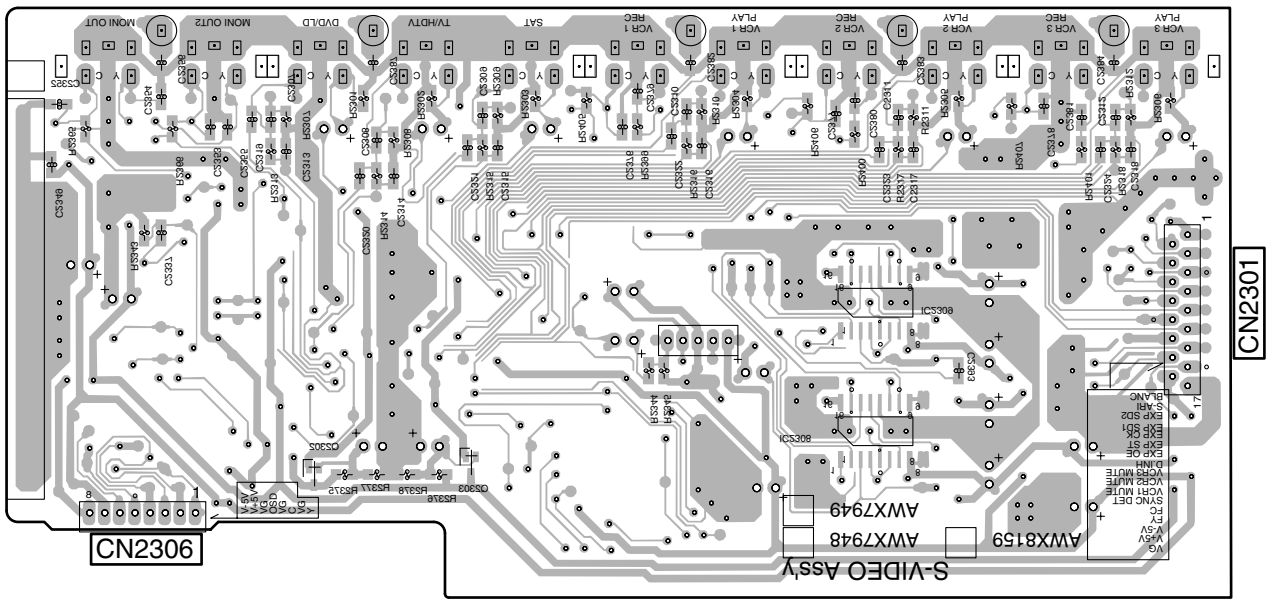
SIDE A



IC2307 IC2304 IC2303 IC2302 IC2301 IC2306 IC2310 Q2314 IC2305 Q2301

(ANP7389-D)

SIDE B



Q2302 Q2303 IC2309 IC2308

(ANP7389-D)

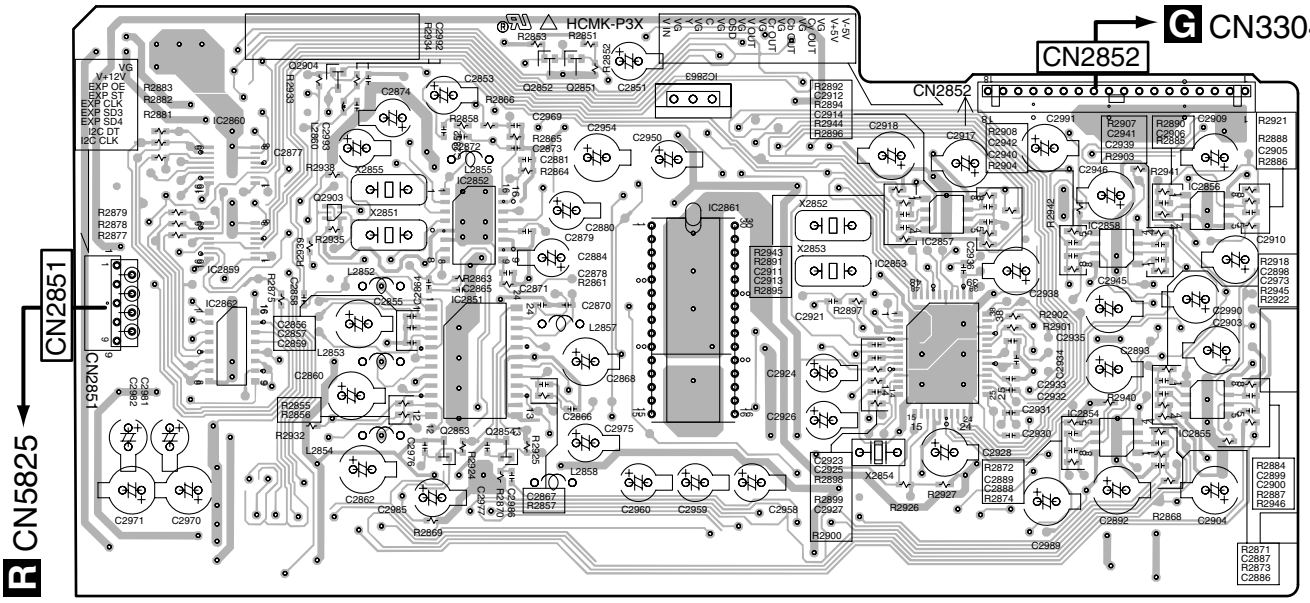
D **D**

4.5 V-CONVERT ASSY

SIDE A **SIDE B**

E V-CONVERT ASSY

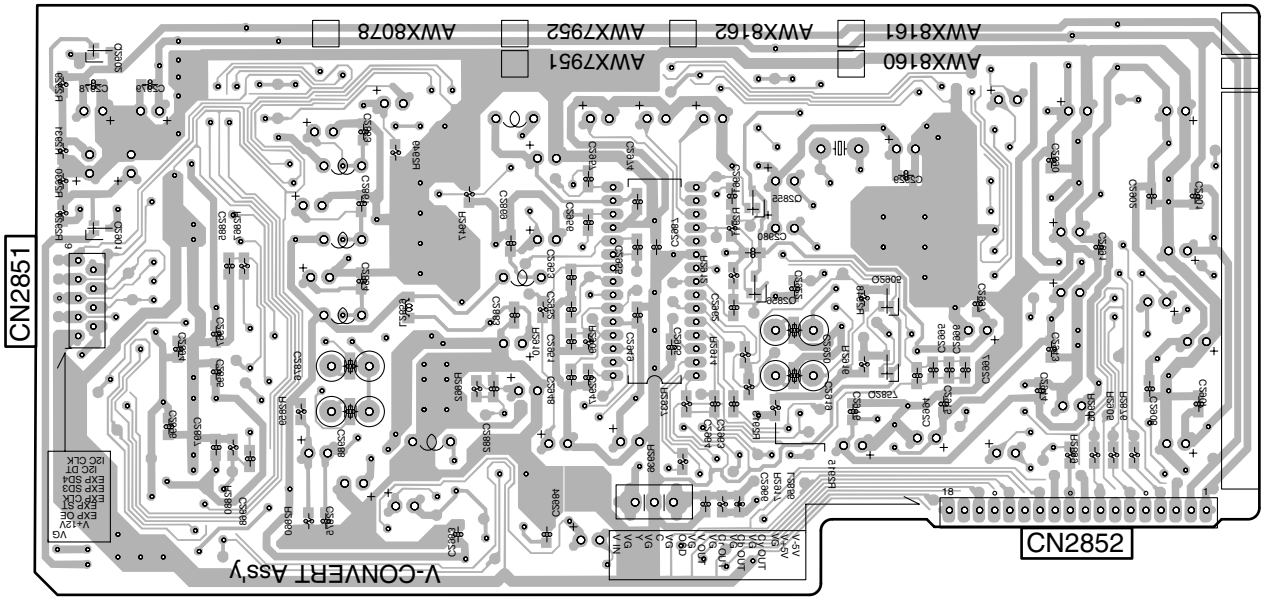
SIDE A



IC2860 IC2859 IC2862 | Q2904 Q2903 | Q2853 | IC2852 IC2851 | Q2854 | Q2852 Q2851 | IC2853 IC2861 | IC2857 IC2853 | IC2858 IC2854 | IC2856 IC2855

(ANP7389-D)

SIDE B



Q2902 Q2901 | Q2855 Q2980 | Q2857

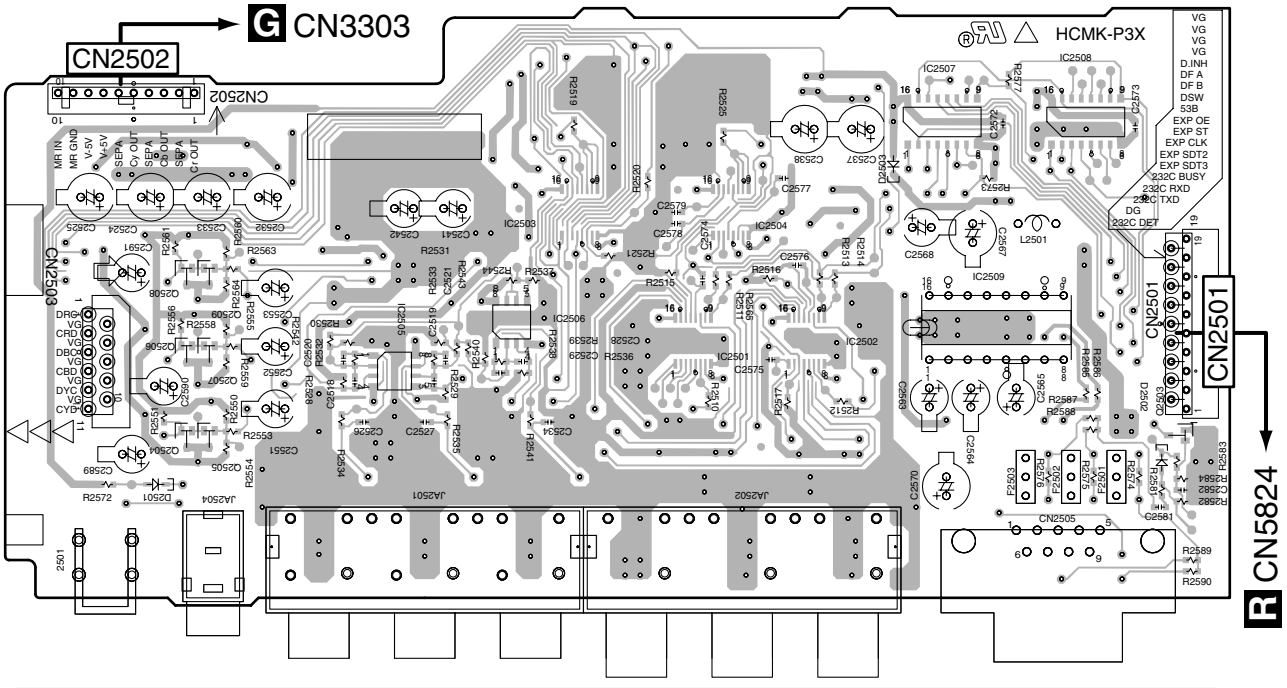
(ANP7389-D)

4.6 COMPONENT ASSY

SIDE A **SIDE B**

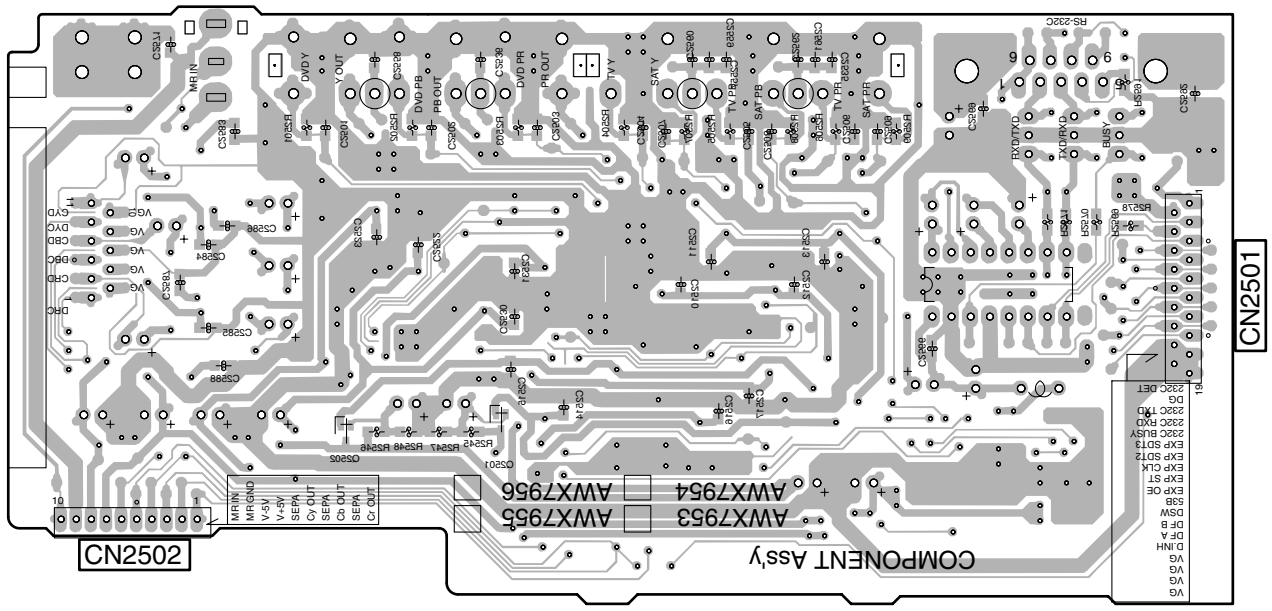
F COMPONENT ASSY

SIDE A



(ANP7389-D)

SIDE B



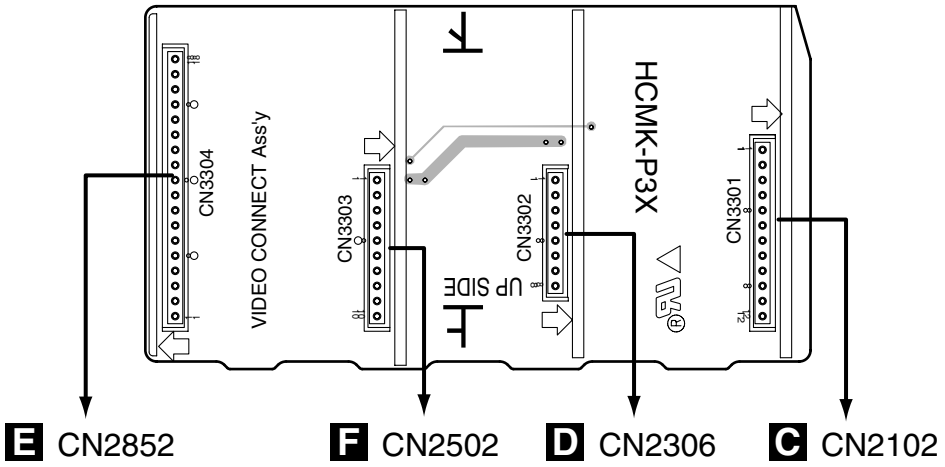
(ANP7389-D)

4.7 VIDEO CONNECT ASSY

SIDE A **SIDE B**

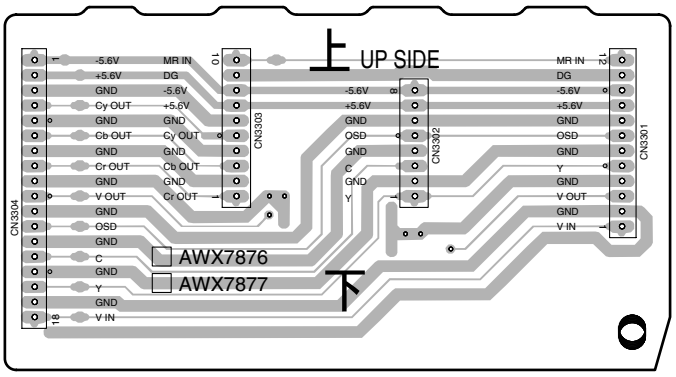
G VIDEO CONNECT ASSY

SIDE A



(ANP7390-D)

SIDE B

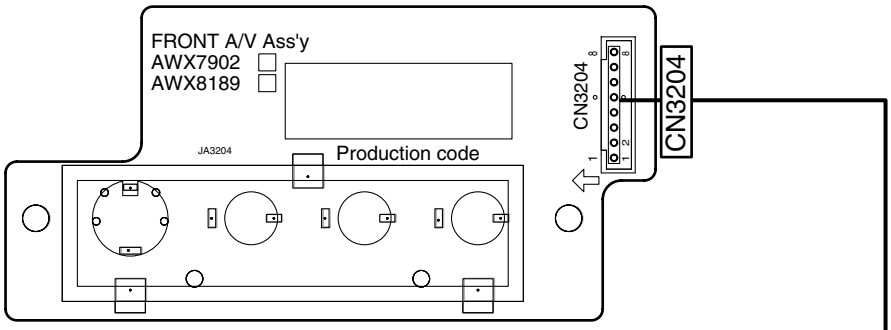


(ANP7390-D)

4.8 MIC AMP, MIC, FRONT A/V and HEADPHONE ASSYS

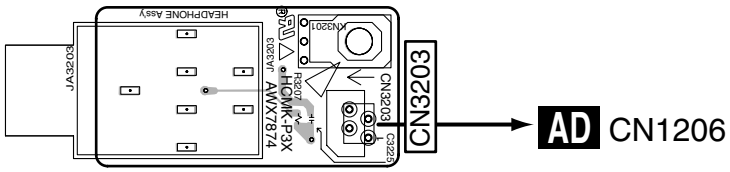
SIDE A

J FRONT A/V ASSY



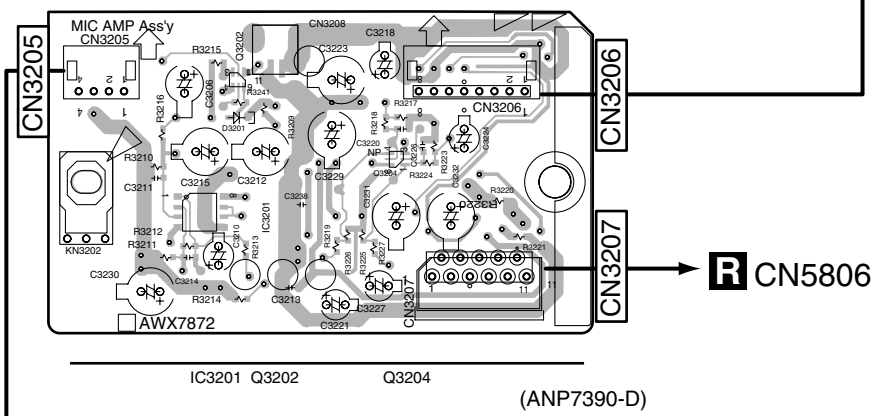
(ANP7390-D)

K HEADPHONE ASSY



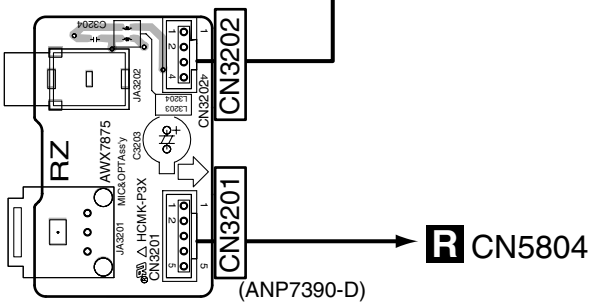
(ANP7390-D)

H MIC AMP ASSY



(ANP7390-D)

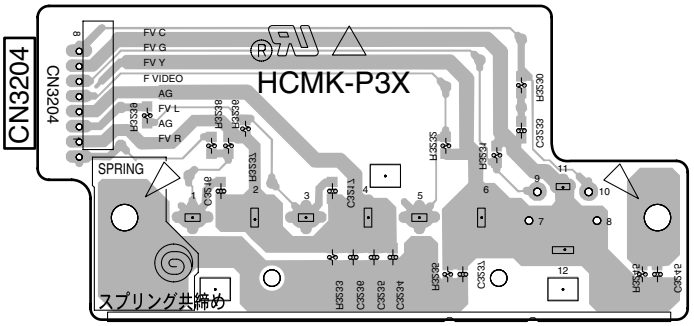
I MIC & OPT ASSY



(ANP7390-D)

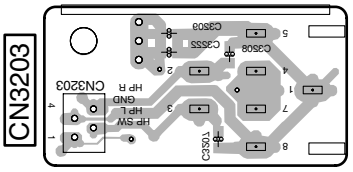
SIDE B

J FRONT A/V ASSY



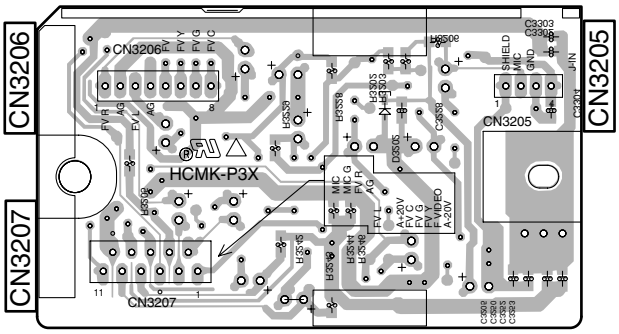
(ANP7390-D)

K HEADPHONE ASSY



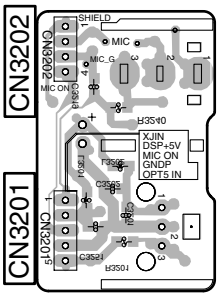
(ANP7390-D)

H MIC AMP ASSY



(ANP7390-D)

I MIC & OPT ASSY

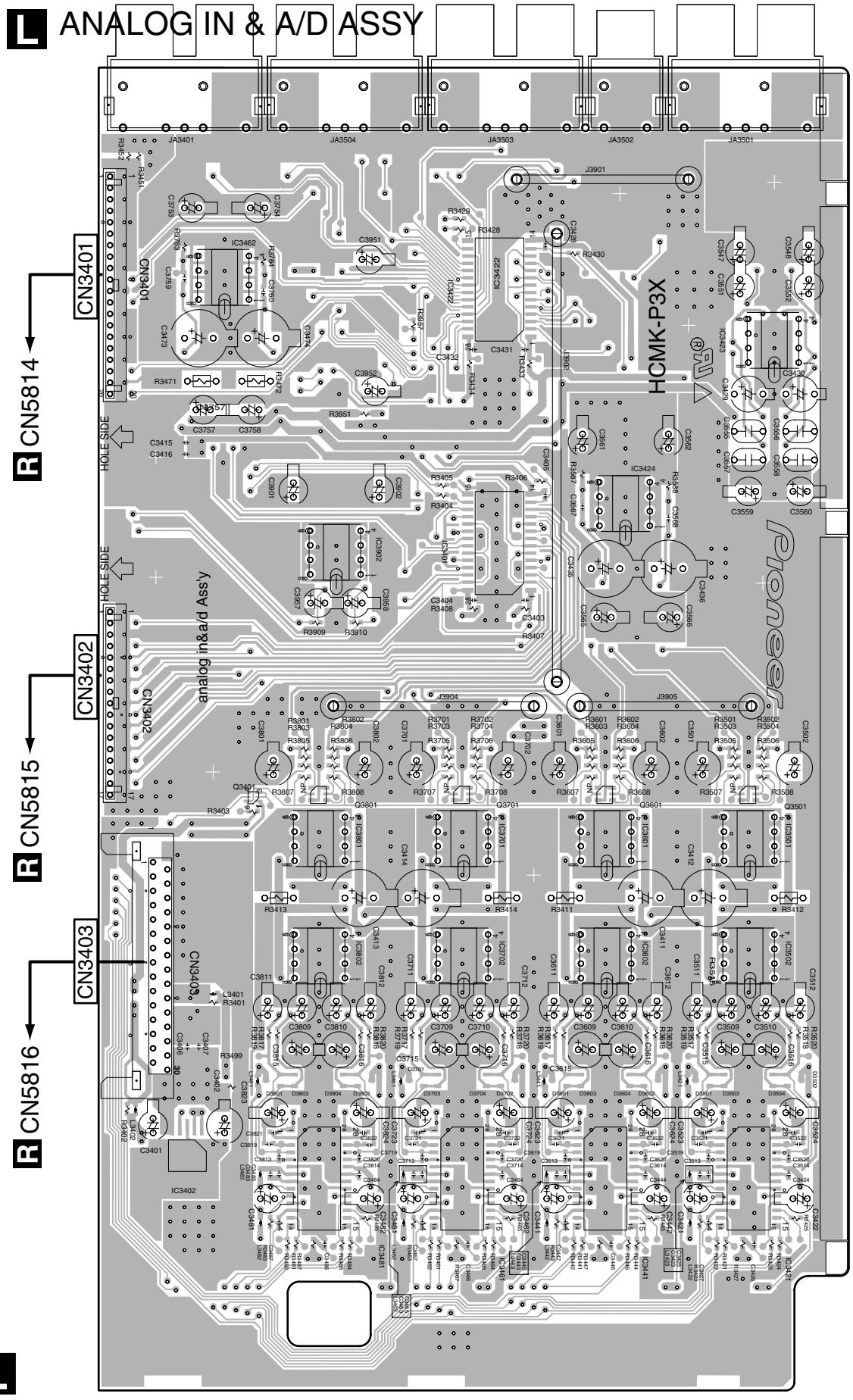


(ANP7390-D)

4.9 ANALOG IN & A/D ASSY

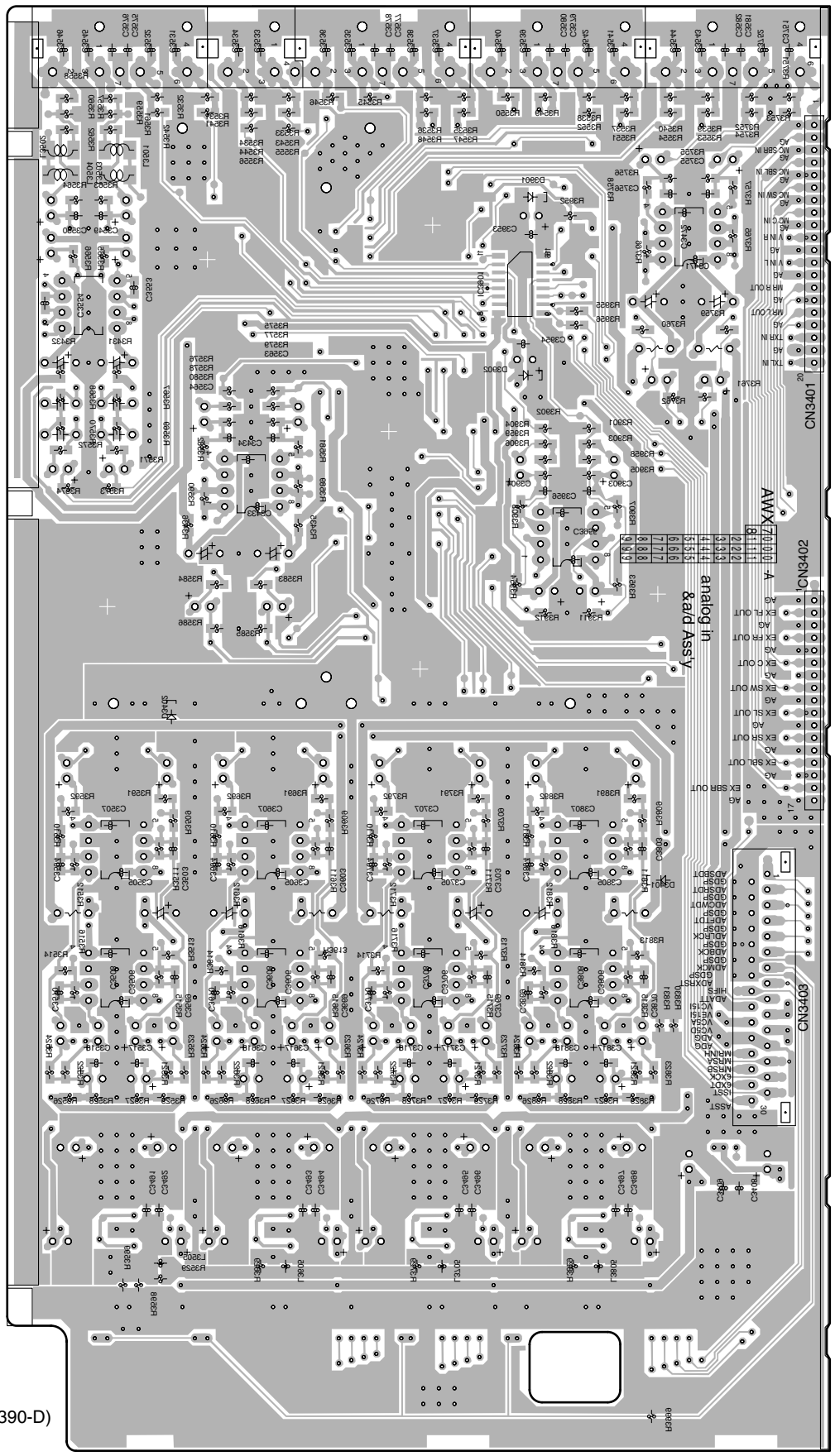
SIDE A

L ANALOG IN & A/D ASSY



SIDE B

L ANALOG IN & A/D ASSY

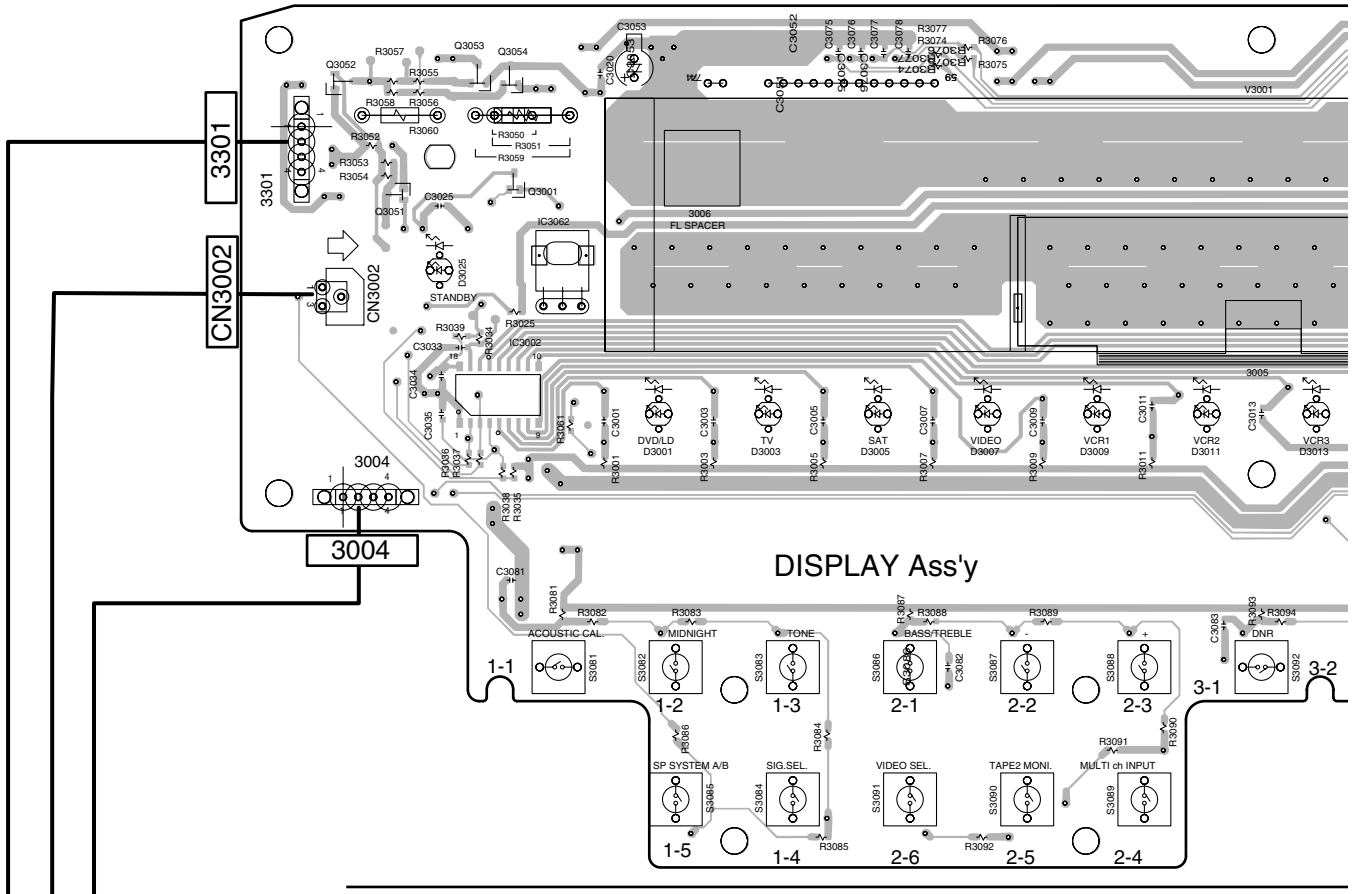


(ANP7390-D)

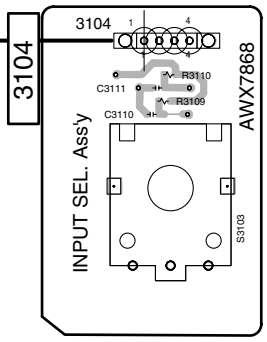
4.10 DISPLAY, INPUT SEL, MULTI JOG, FL SUP. and STANDBY ASSYS

SIDE A

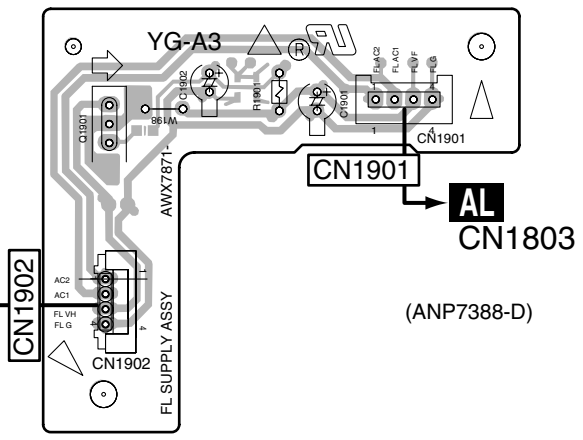
M DISPLAY ASSY



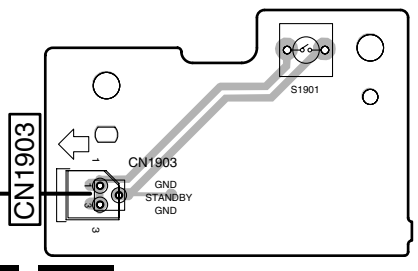
N INPUT SEL ASSY



AE FL SUPPLY ASSY

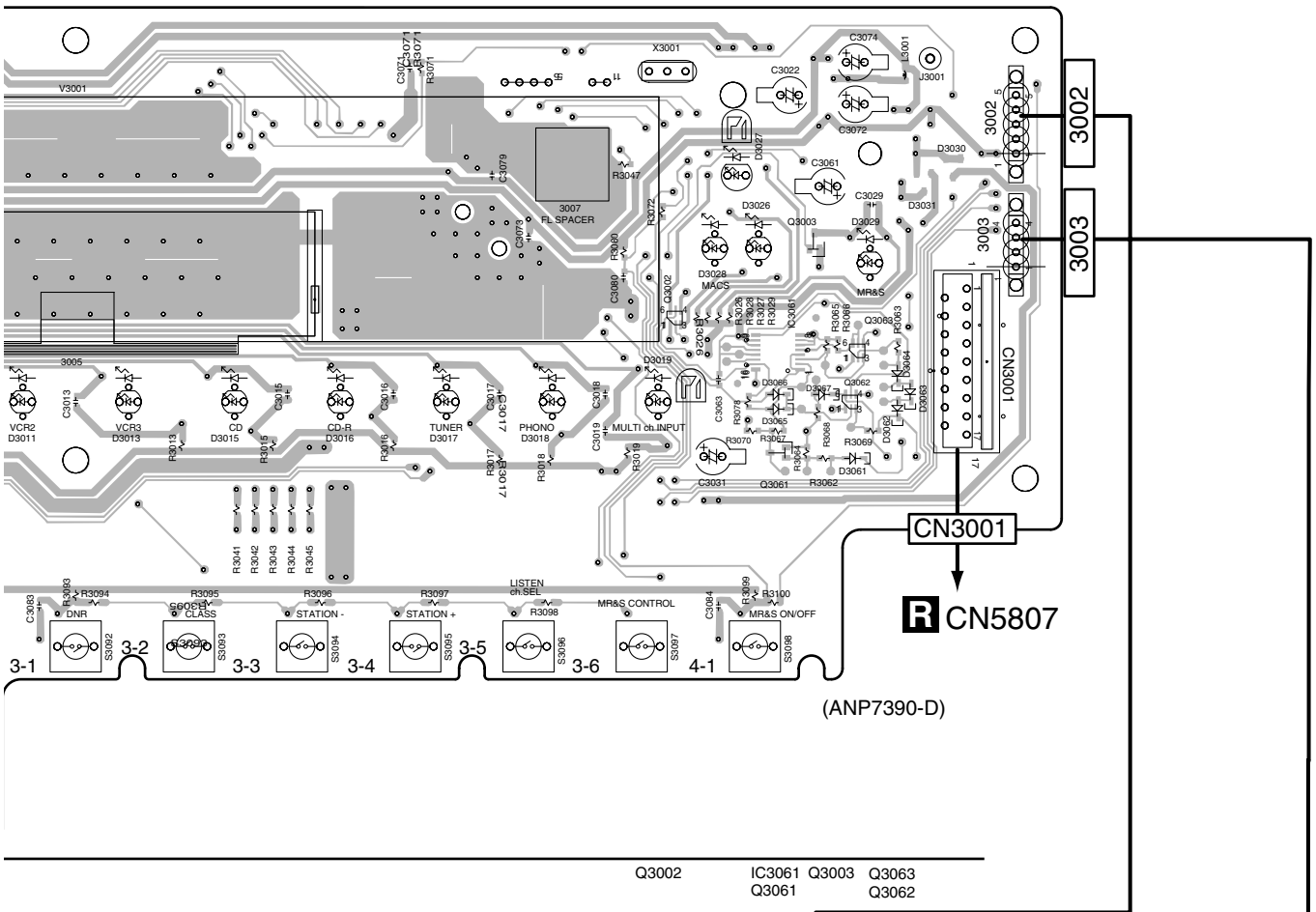


AF STANDBY ASSY

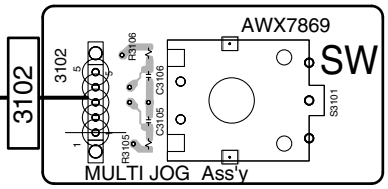


M N AE AF

SIDE A

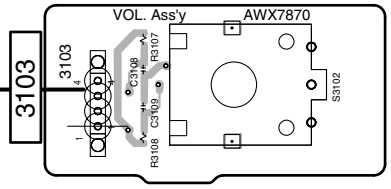


O MULTI JOG ASSY



(ANP7390-D)

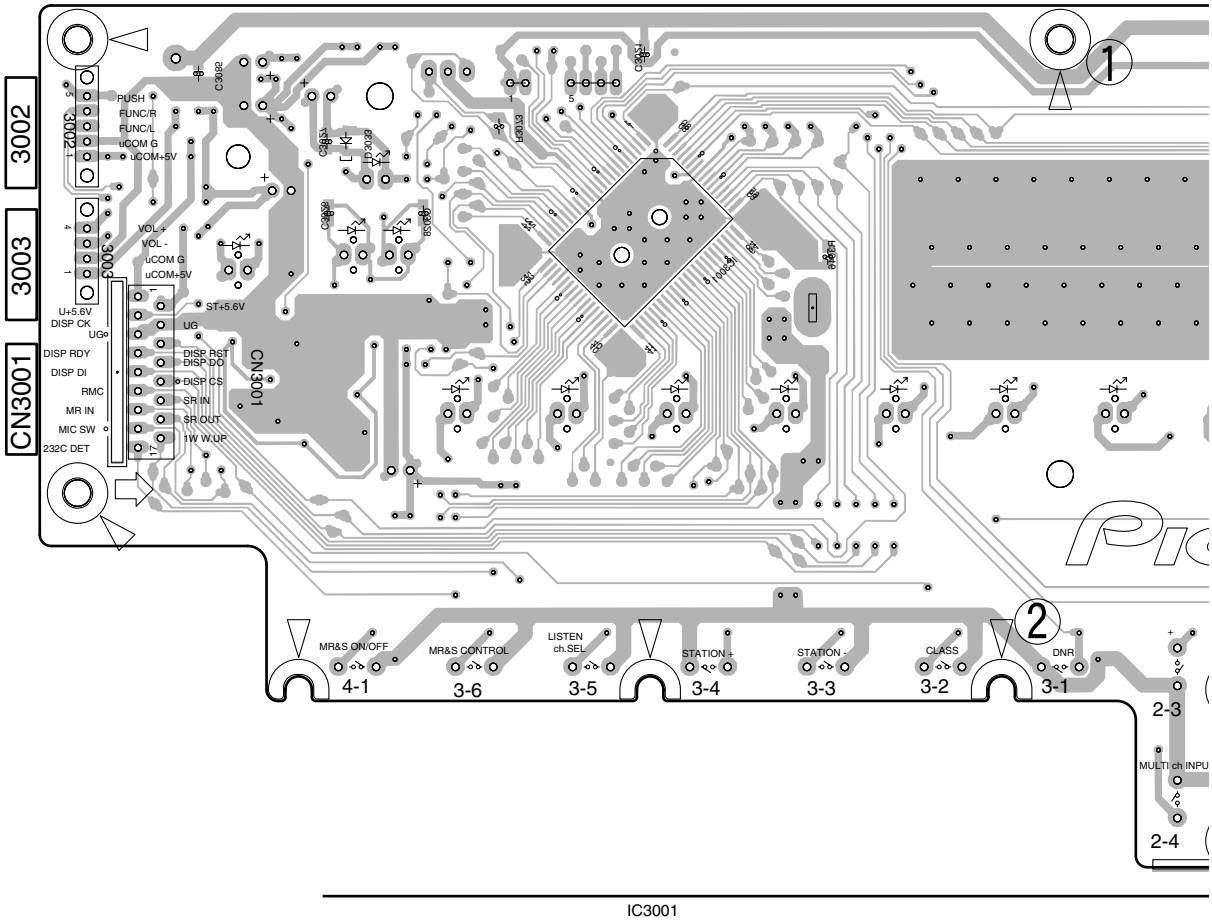
P VOL ASSY



(ANP7390-D)

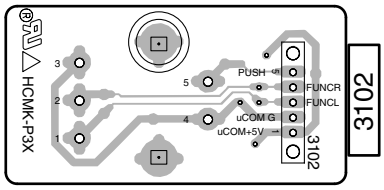
SIDE B

M DISPLAY ASSY



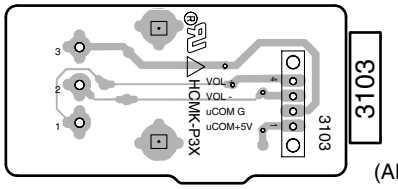
IC3001

O MULTI JOG ASSY



(ANP7390-D)

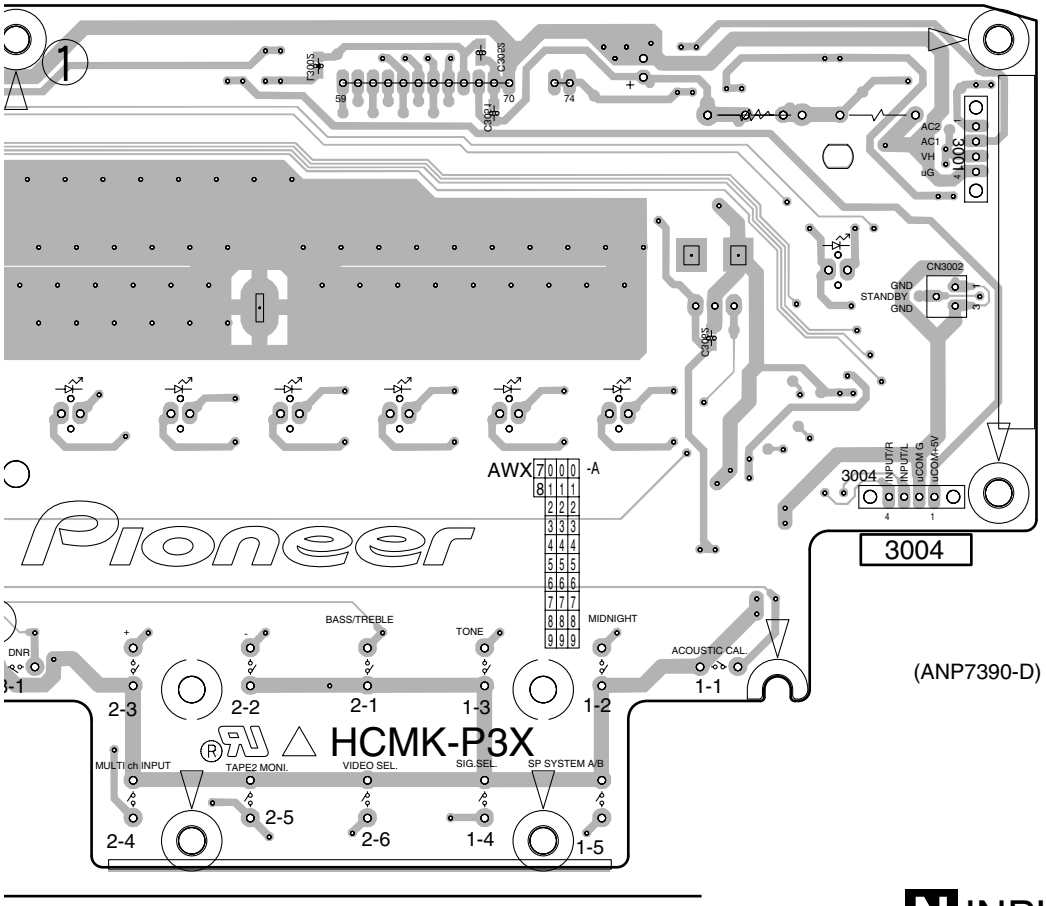
P VOL ASSY



(ANP7390-D)

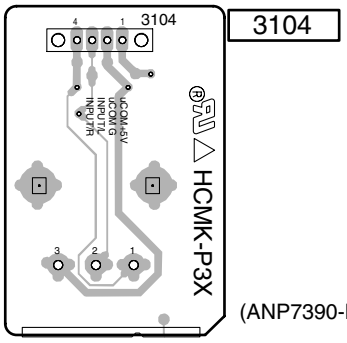
M O P

SIDE B



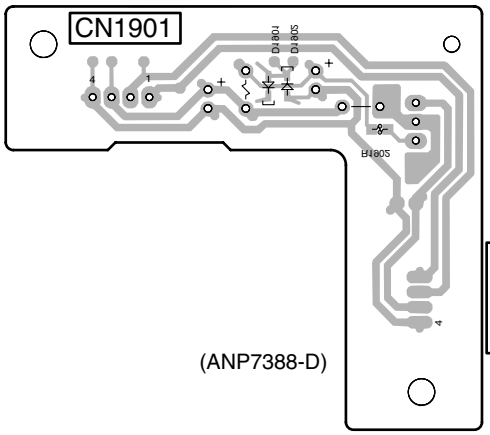
(ANP7390-D)

N INPUT SEL ASSY



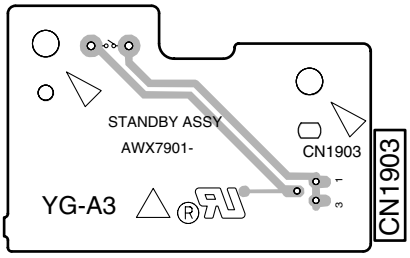
(ANP7390-D)

AE FL SUPPLY ASSY



(ANP7388-D)

AF STANDBY ASSY



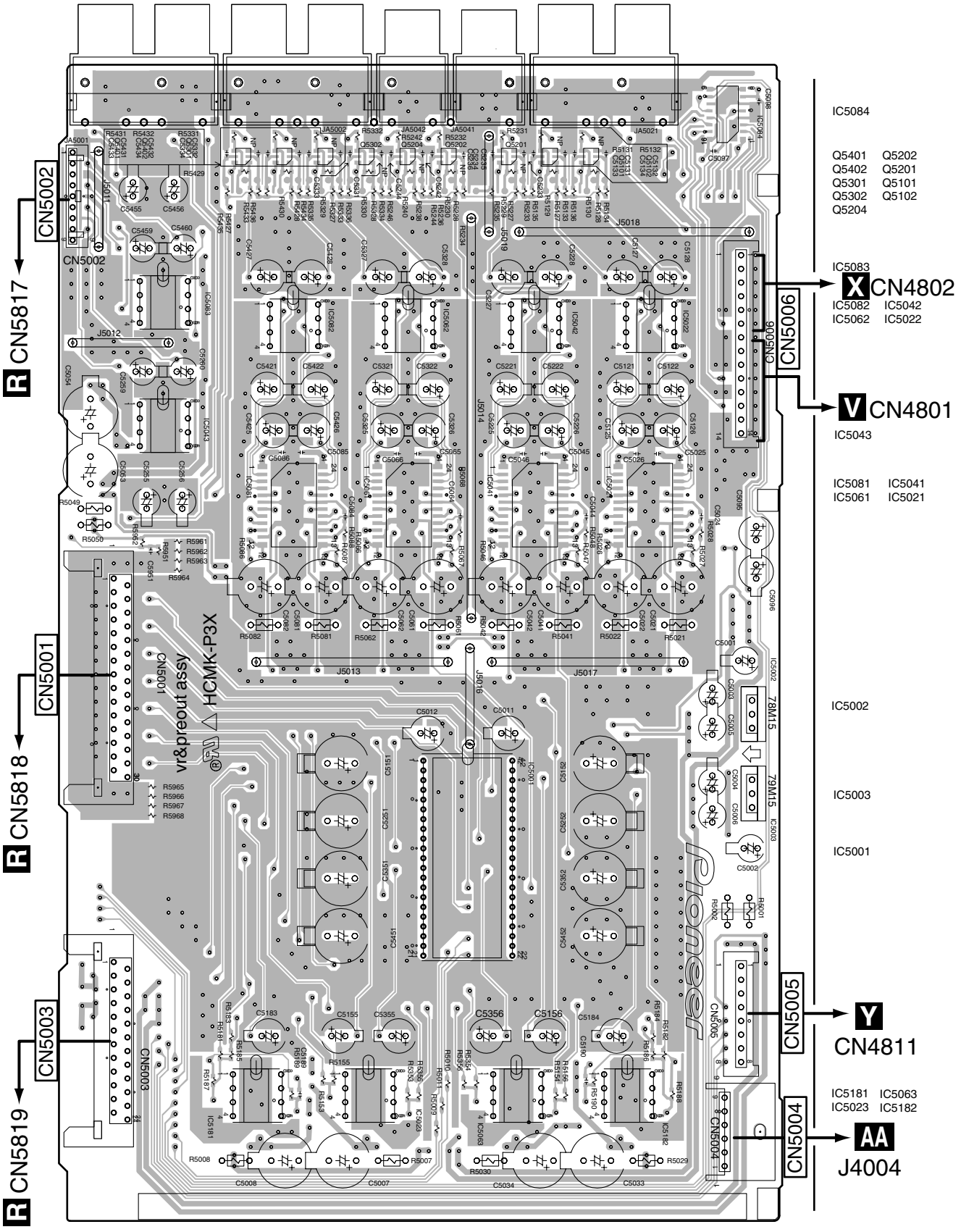
(ANP7388-D)

M N AE AF

4.11 VR & PRE OUT ASSY

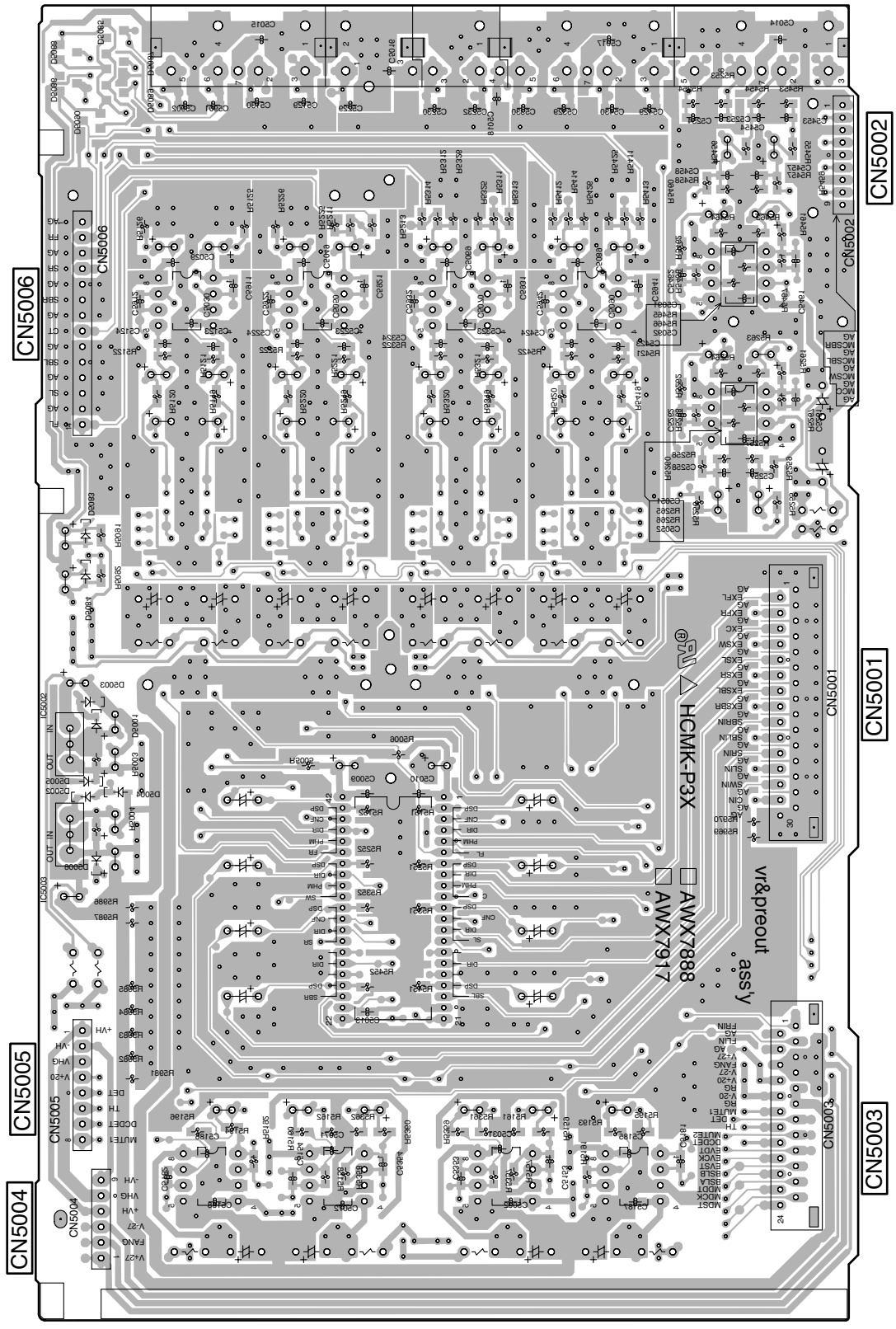
SIDE A

Q VR & PRE OUT ASSY



(ANP7392-C)

Q VR & PRE OUT ASSY

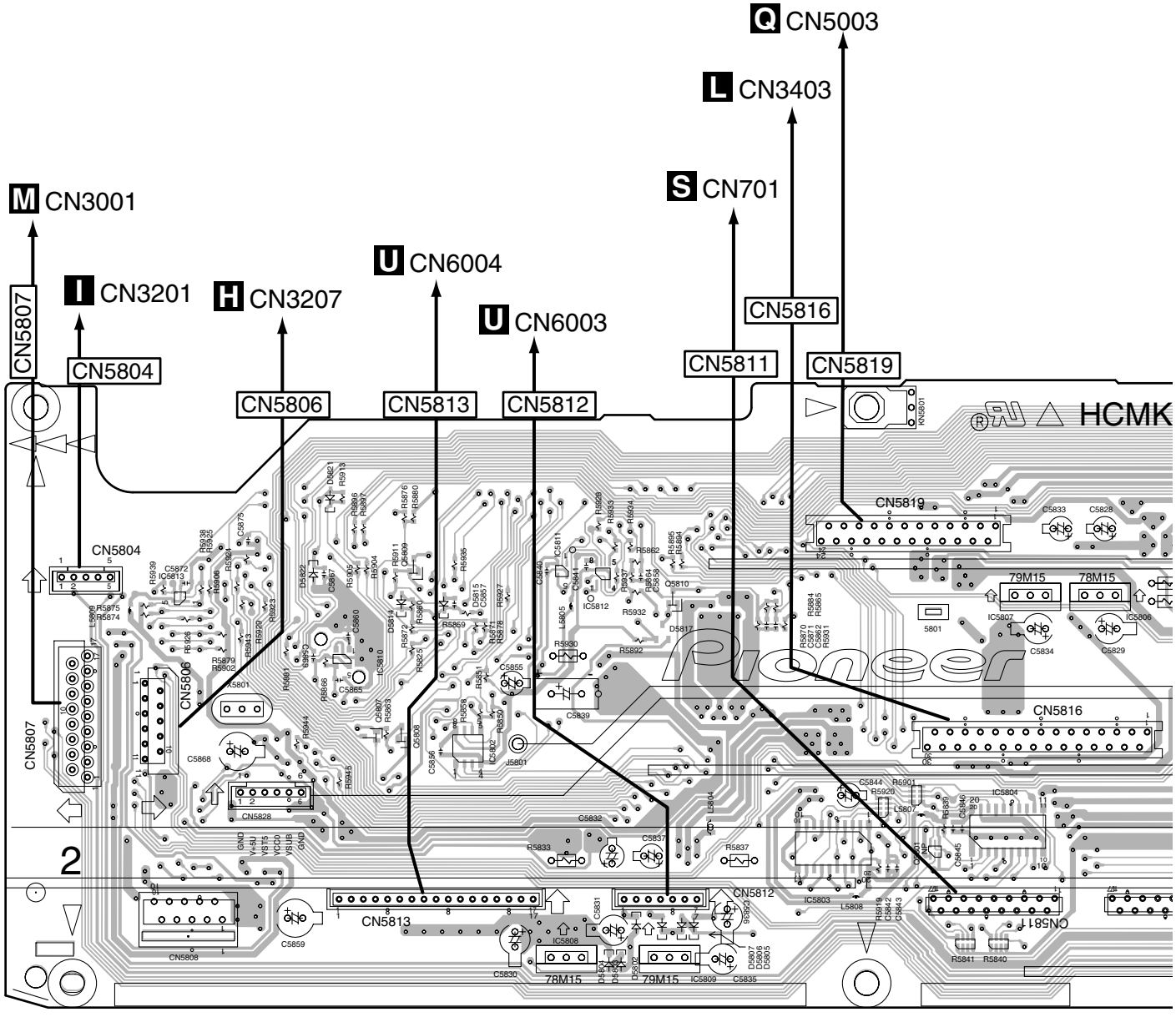


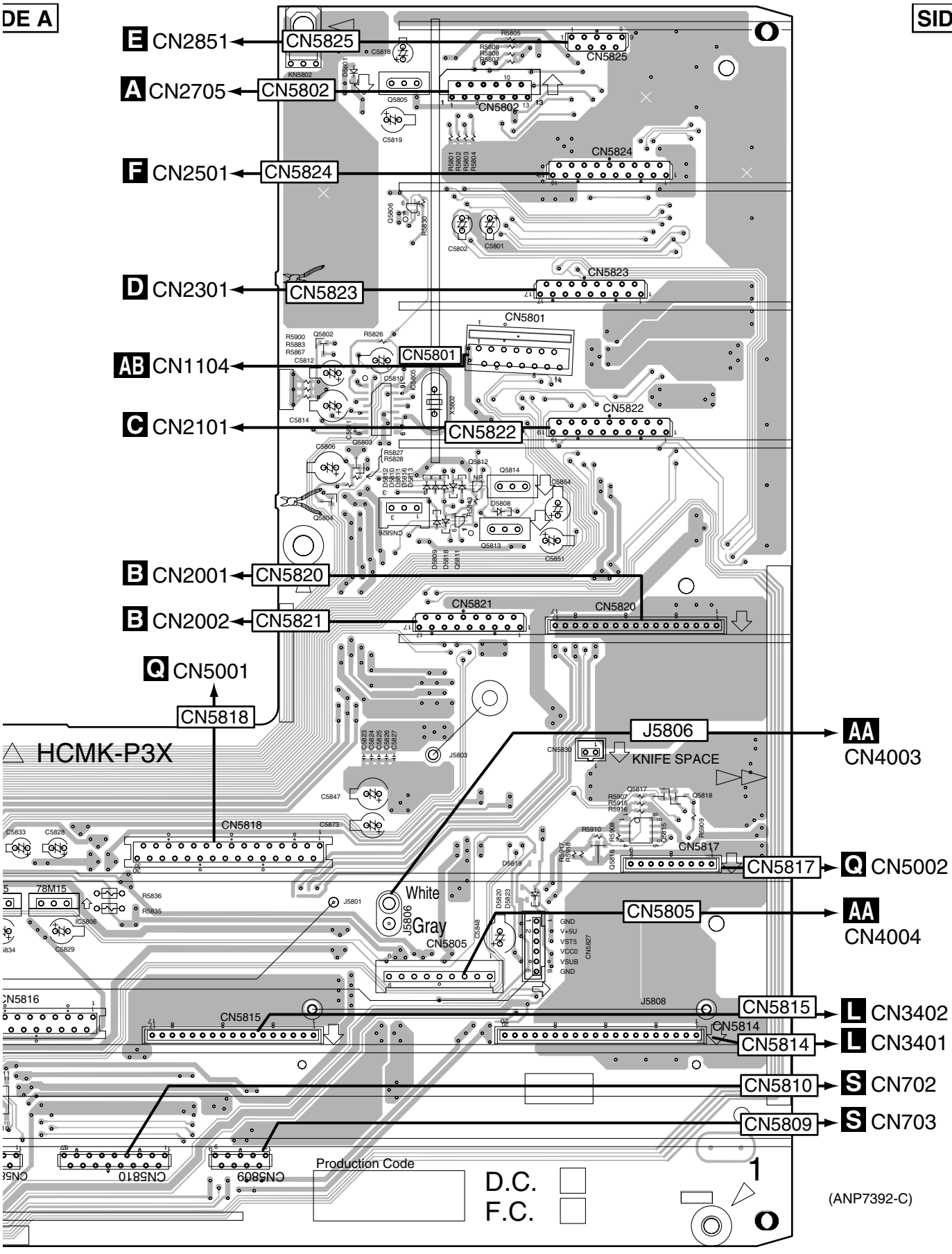
(ANP7392-C)

4.12 MOTHER ASSY

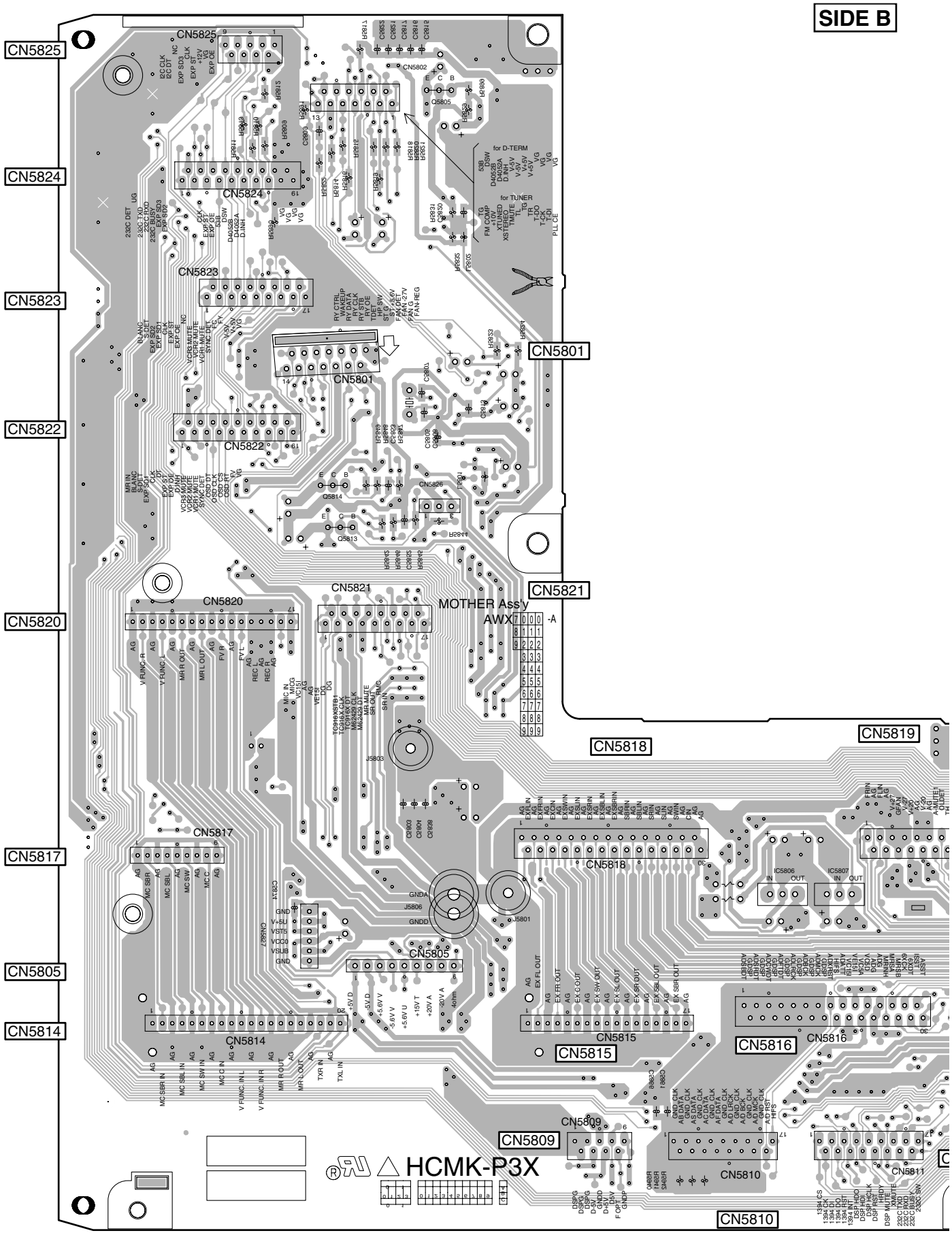
SIDE A

R MOTHER ASSY



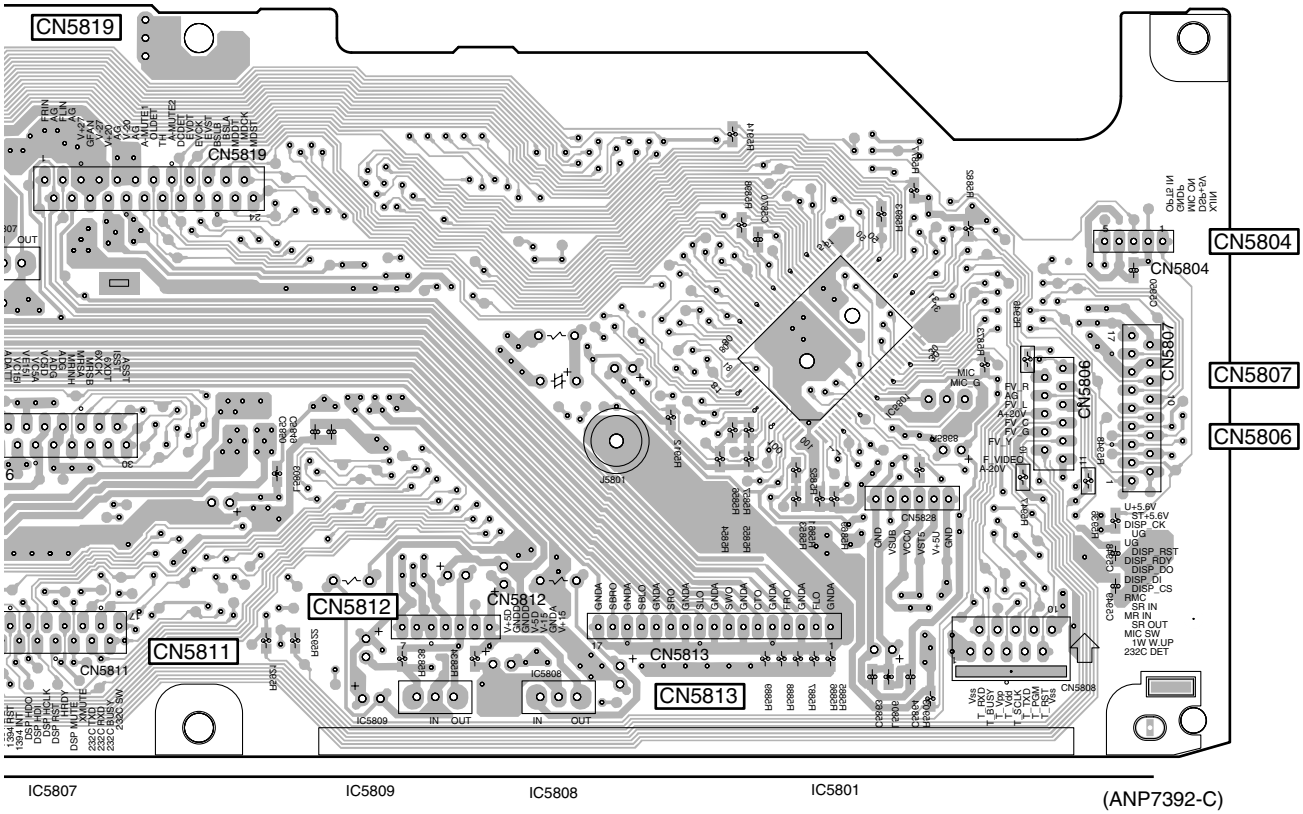

SIDE A
SIDE A
E CN2851
CN5825
A CN2705
CN5802
F CN2501
CN5824
D CN2301
CN5823
AB CN1104
CN5801
C CN2101
CN5822
B CN2001
CN5820
B CN2002
CN5821
Q CN5001
CN5818
HCMK-P3X
J5806
AA
CN4003
KNIFE SPACE
CN5817
Q CN5002
CN5805
AA
CN4004
CN5815
L CN3402
CN5814
L CN3401
CN5810
S CN702
CN5809
S CN703
White
Gray
Production Code
D.C.
F.C.
(ANP7392-C)
IC5806
Q5802 Q5803 Q5805 Q5812 Q5814
Q5804 Q5806 Q5811 Q5813
IC5805
Q5816 Q5817 Q5818
Q5815

SIDE B


CN5825
CN5824
CN5823
CN5801
CN5822
CN5821
CN5820
CN5819
CN5818
CN5817
CN5805
CN5814
CN5815
CN5816
CN5809
CN5810
CN5811
MOTHER Ass'y
AWX
HCMK-P3X
Q5814
Q5813
Q5805
IC5806
IC5807

DE B **SIDE B**

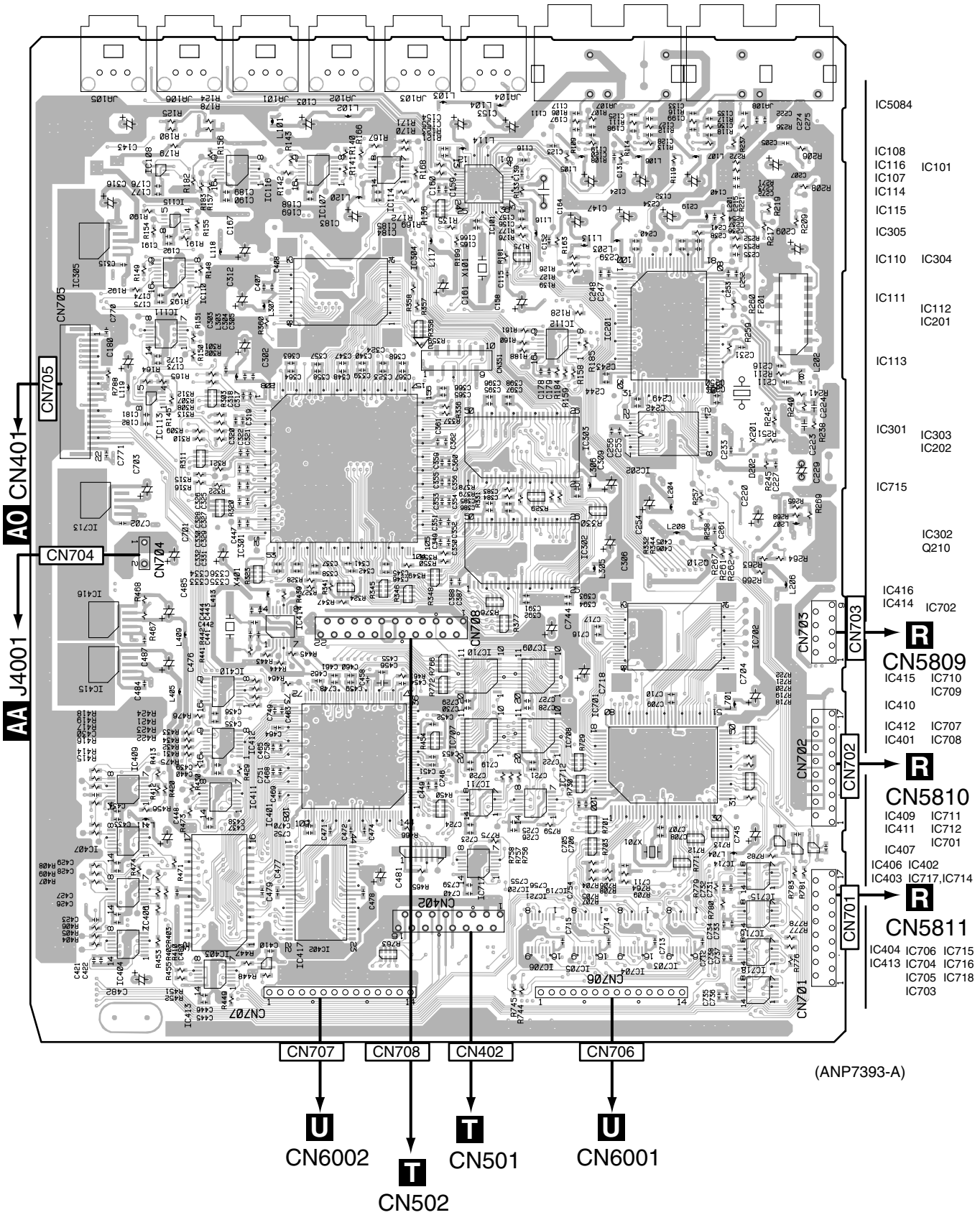
R MOTHER ASSY



4.13 DSP ASSY

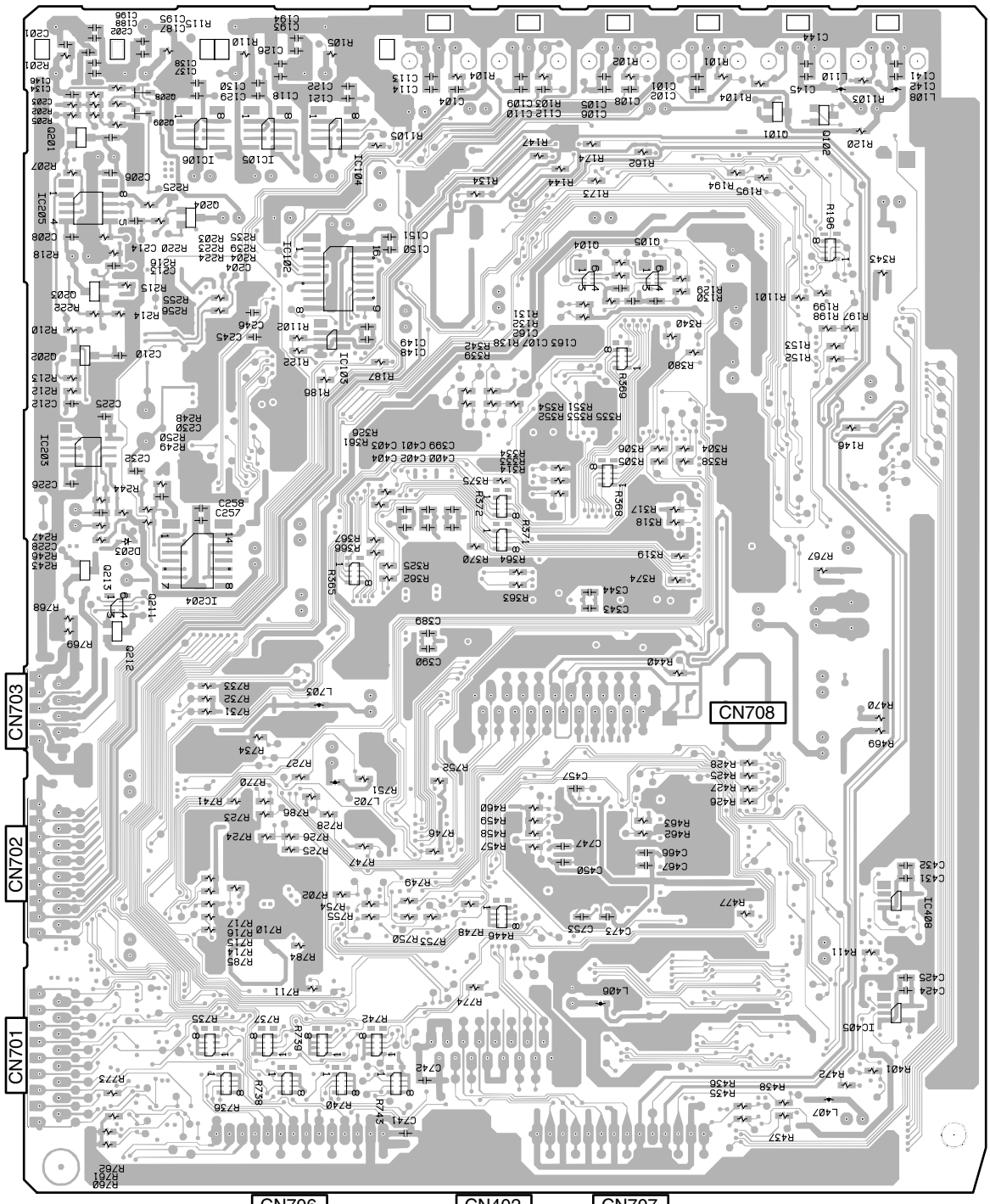
SIDE A

S DSP ASSY



SIDE B

S DSP ASSY

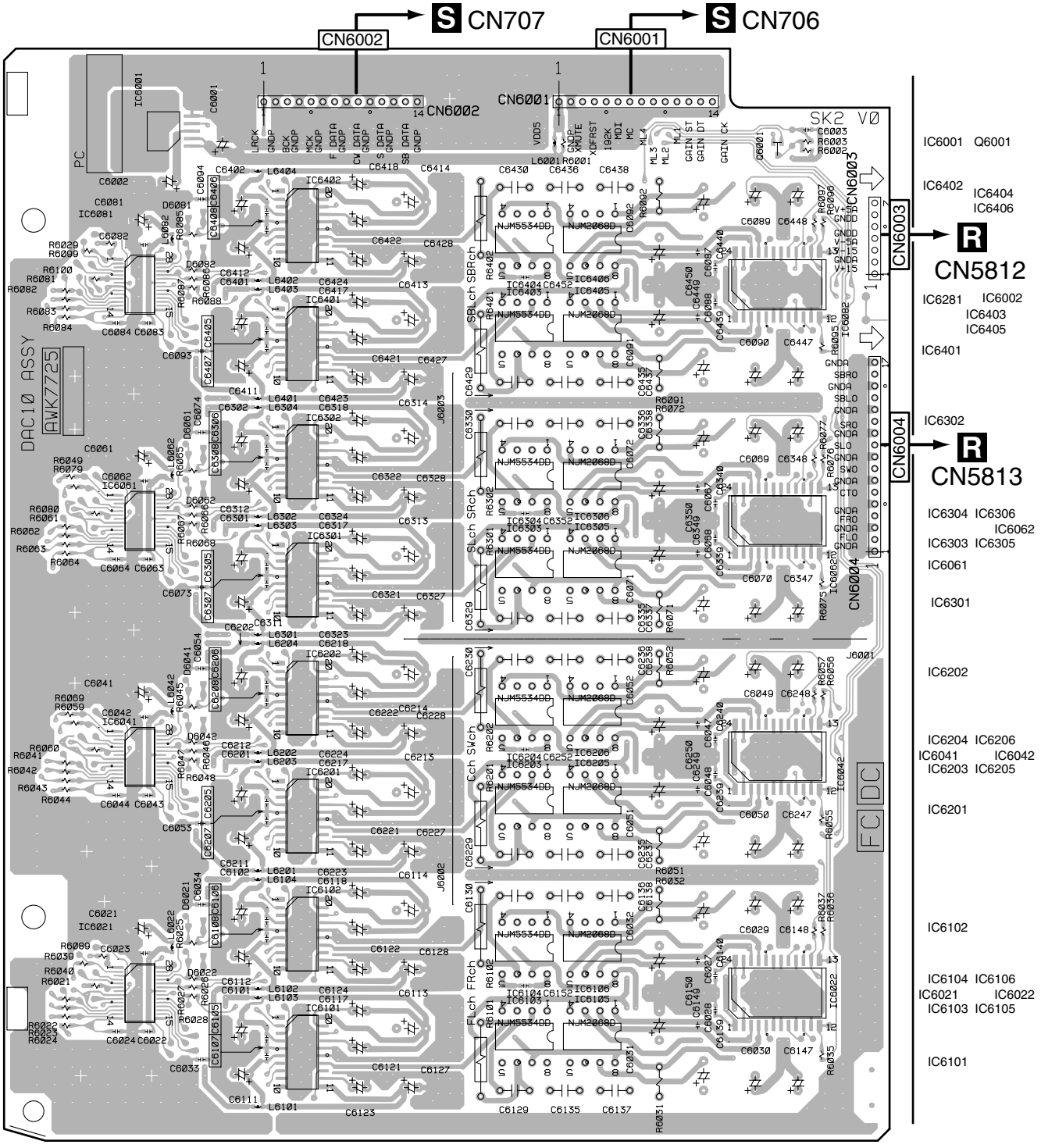


(ANP7393-A)

4.14 DAC10 ASSY

SIDE A

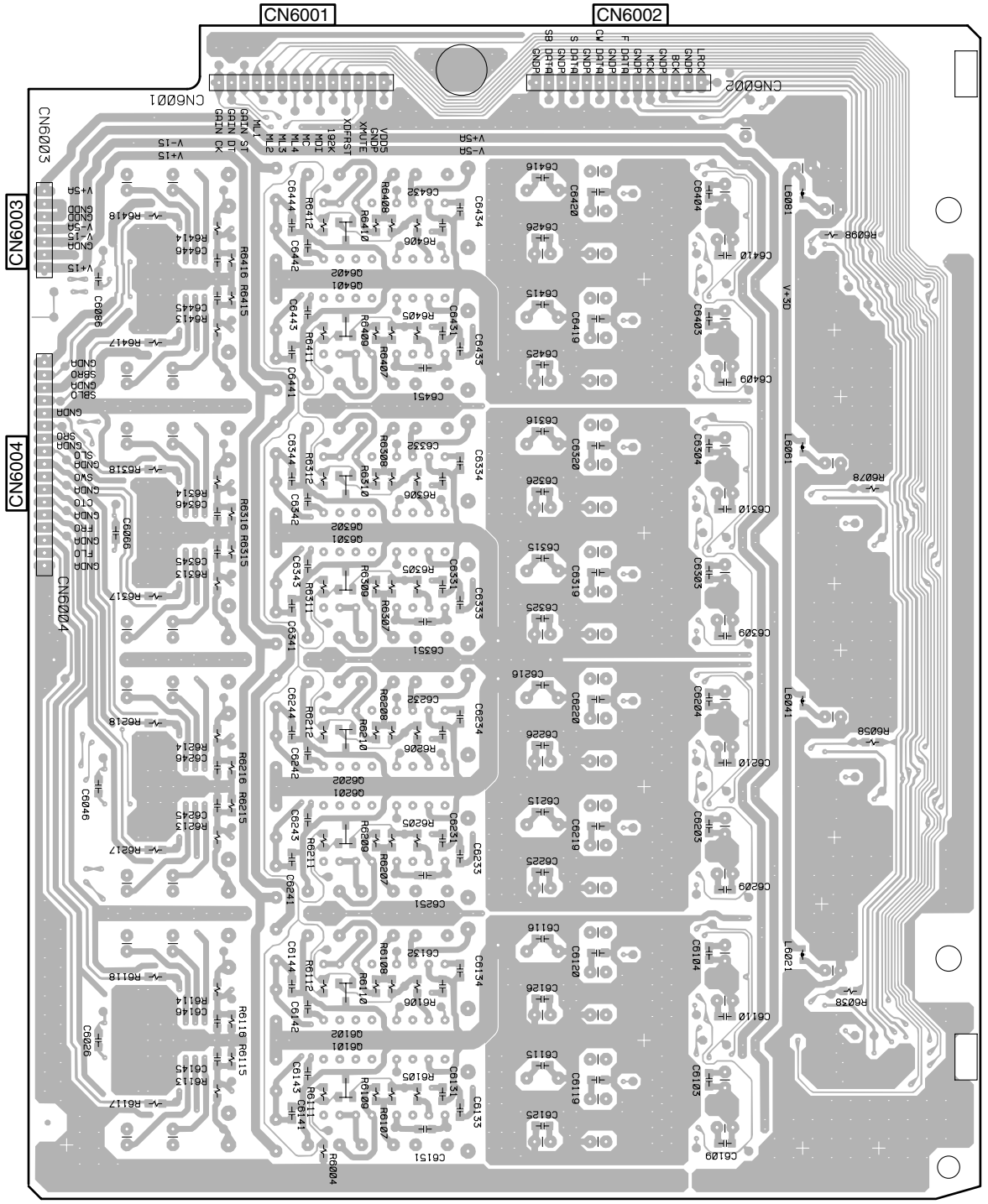
U DAC10 ASSY



(ANP7394-A)

SIDE B

U DAC10 ASSY



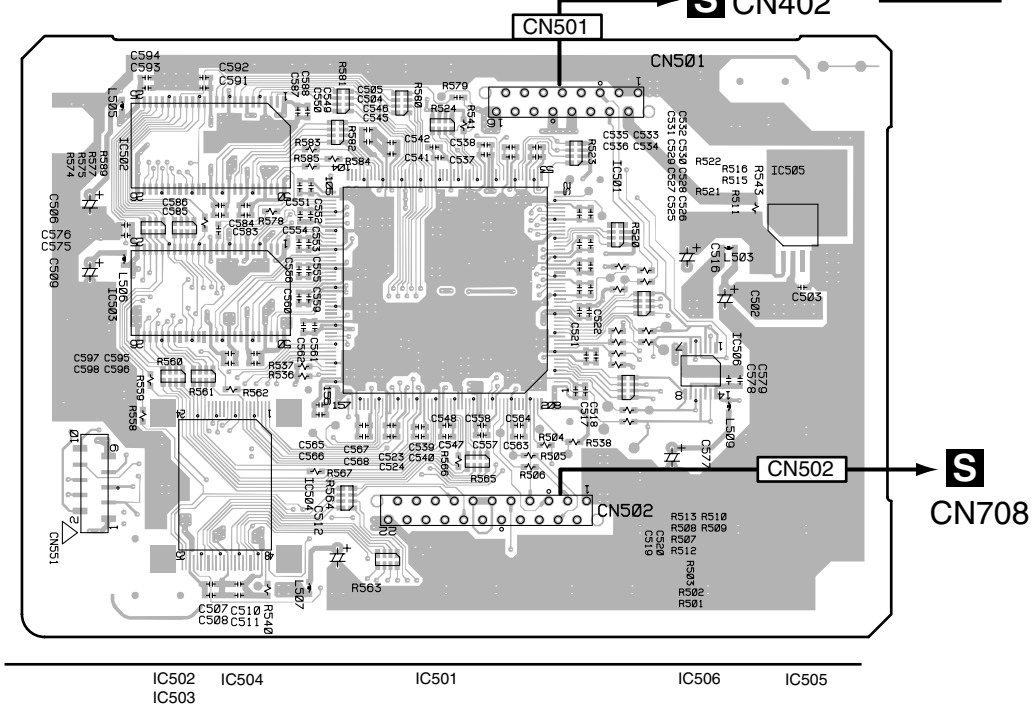
(ANP7394-A)

4.15 DSP3 ASSY

SIDE A **SIDE B**

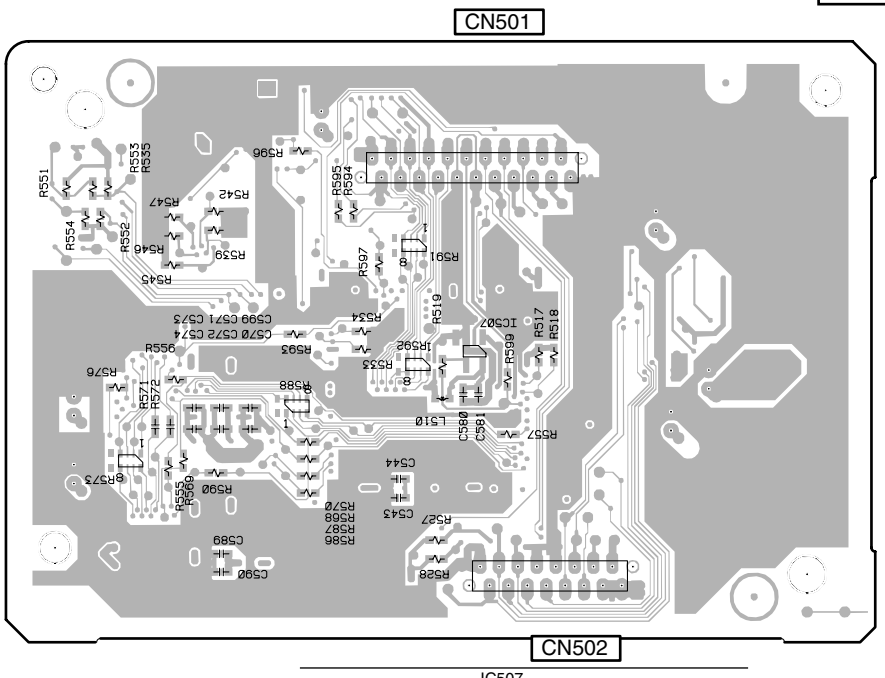
T DSP3 ASSY

SIDE A



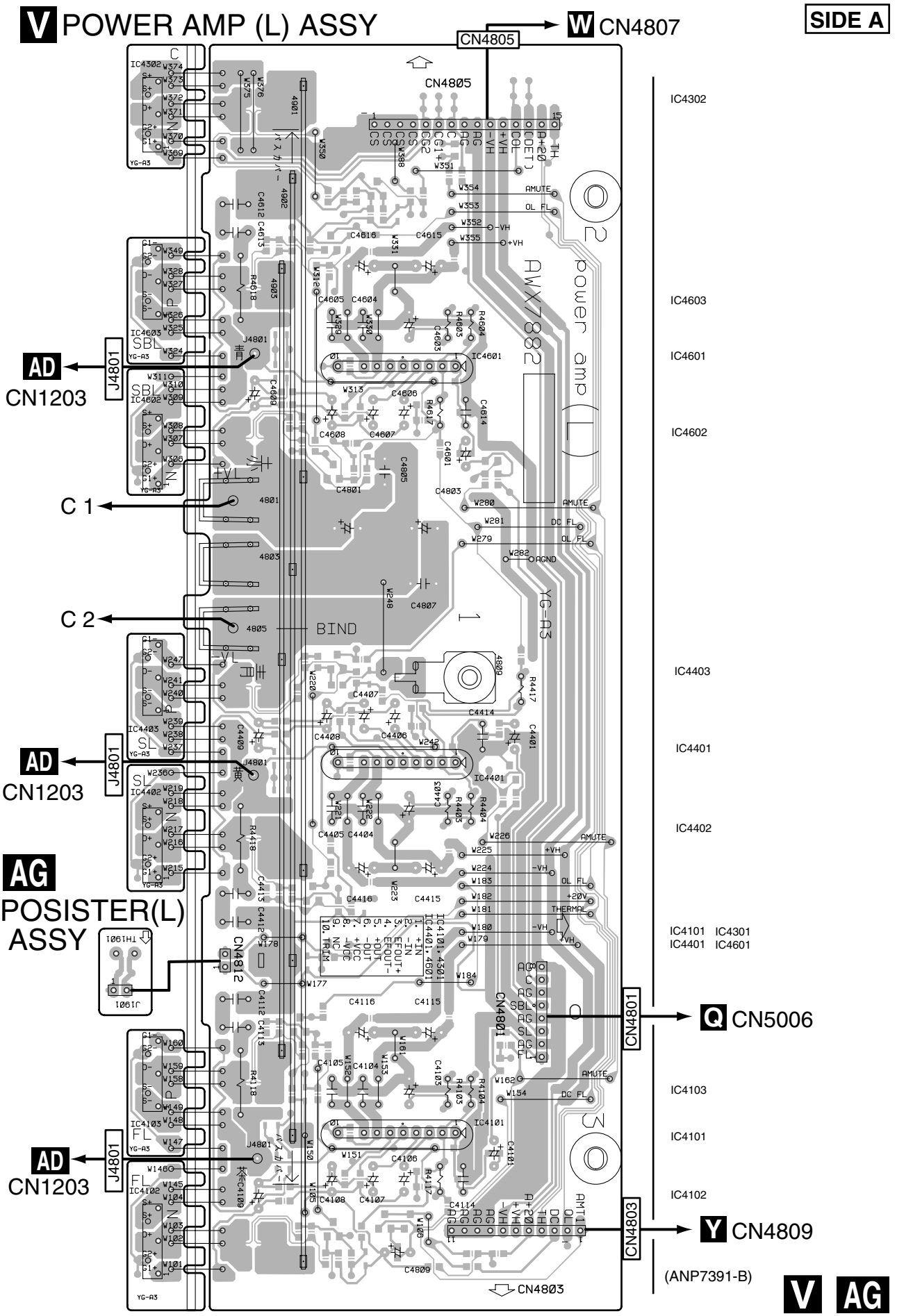
(ANP7417-B)

SIDE B



(ANP7417-B)

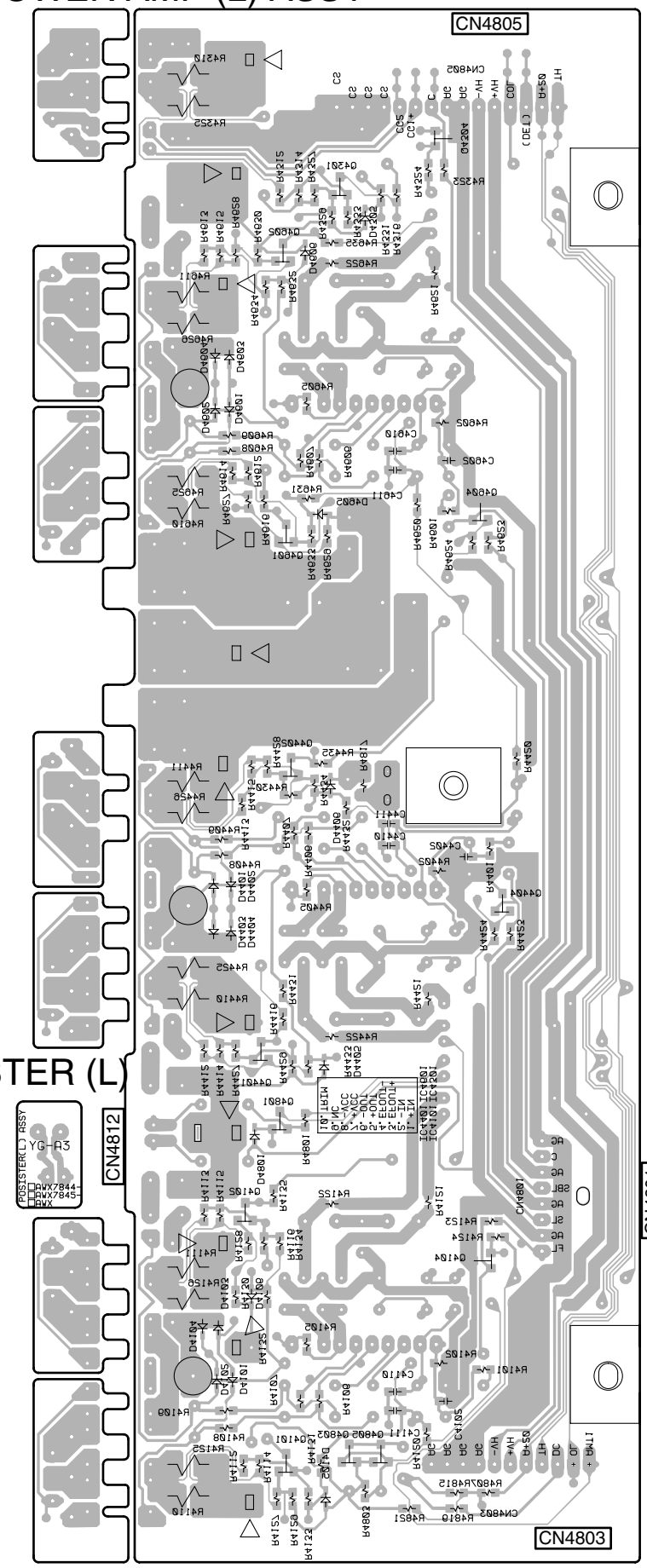
4.16 POWER AMP(L) and POSISTER(L) ASSYS



SIDE B

V POWER AMP (L) ASSY

SIDE B



Q4304
Q4301
Q4602
Q4604
Q4601
Q4402
Q4404
Q4801
IC4101 IC4301
IC4401 IC4601
Q4401
Q4102
Q4104
Q4101 Q4803
Q4805

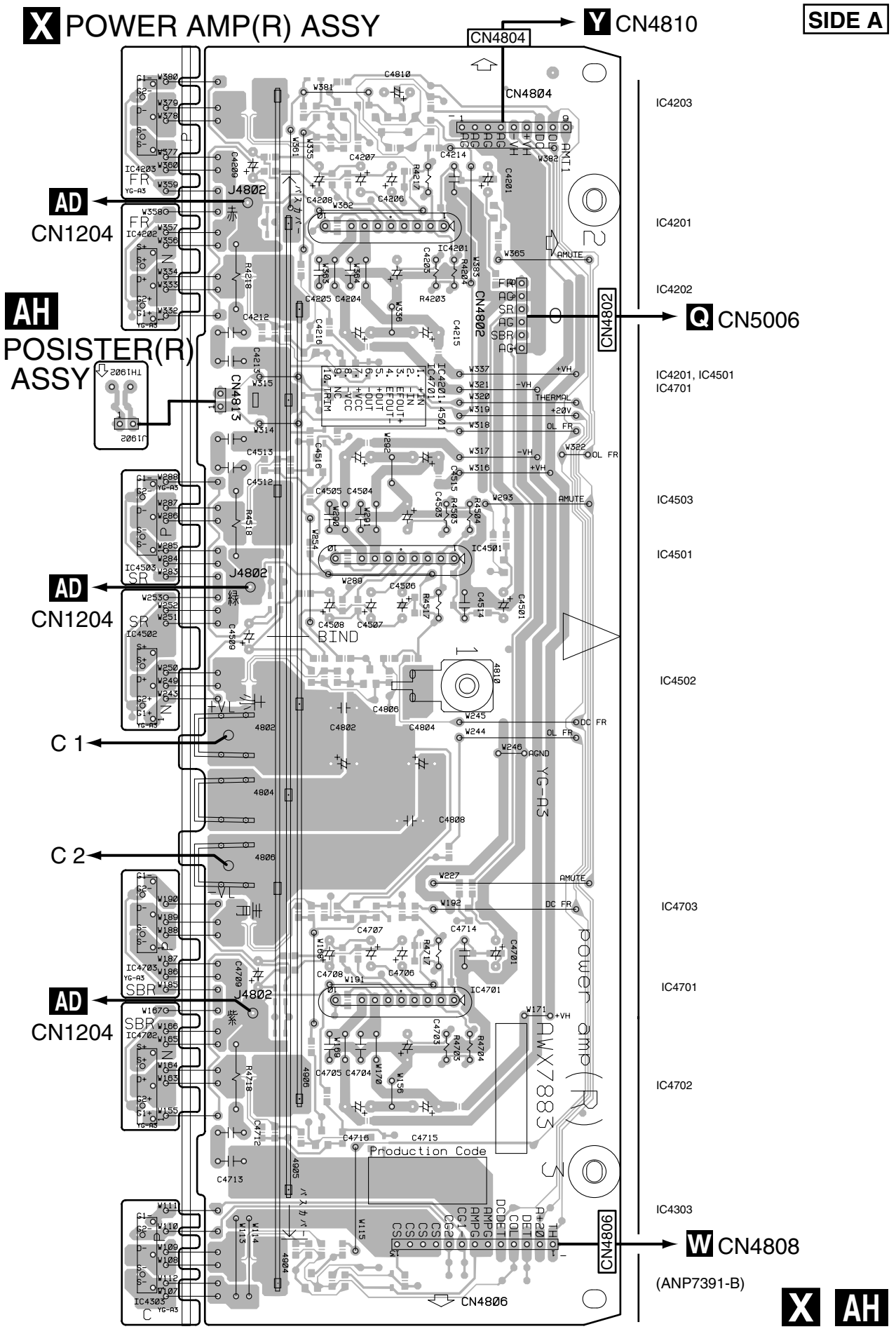
(ANP7391-B)

AG POSISTER (L) ASSY

V AG

V AG

4.17 POWER AMP(R) and POSISTER(R) ASSYS



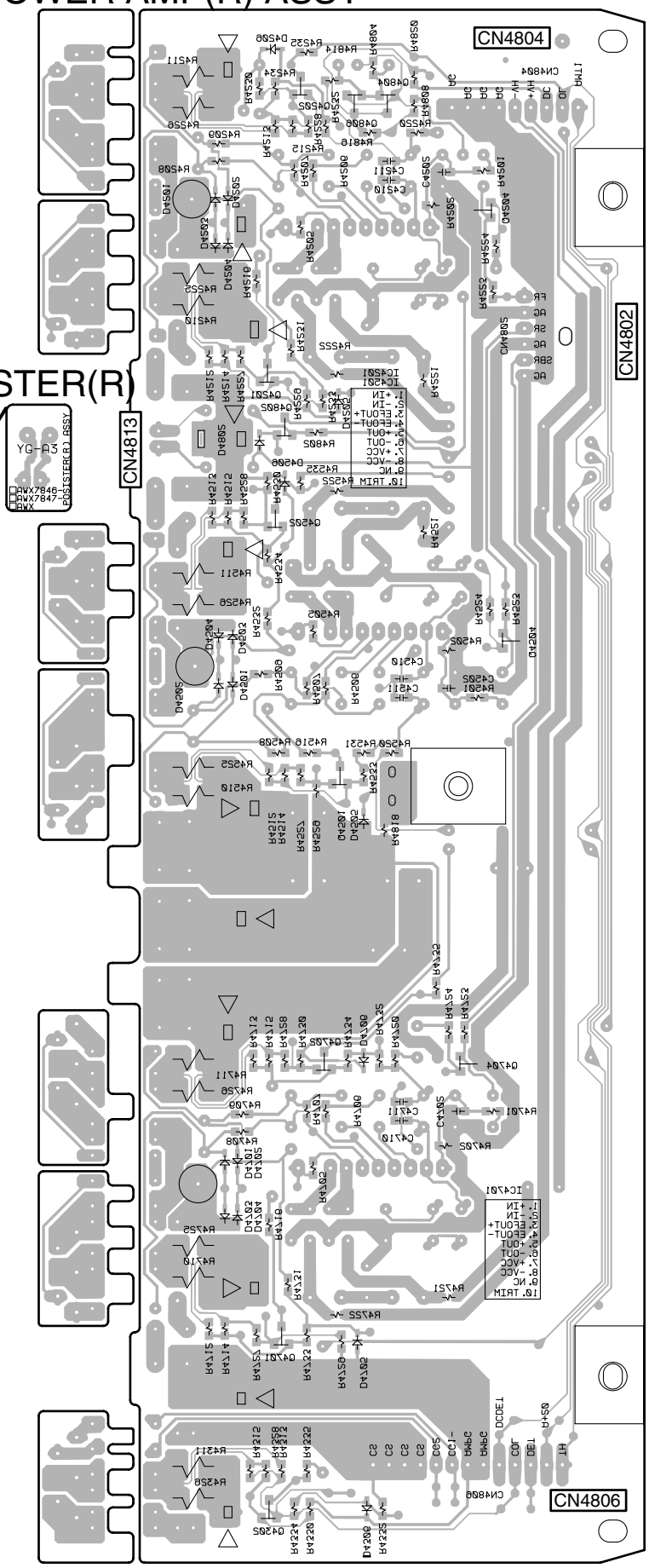
SIDE B

X POWER AMP(R) ASSY

SIDE B

AH

POSISTER(R) ASSY



Q4806
Q4202
Q4804
Q4204
Q4201
IC4501
Q4802
IC4201
Q4502
Q4504
Q4501
Q4702
Q4704
IC4701
Q4701
Q4302

(ANP7391-B)

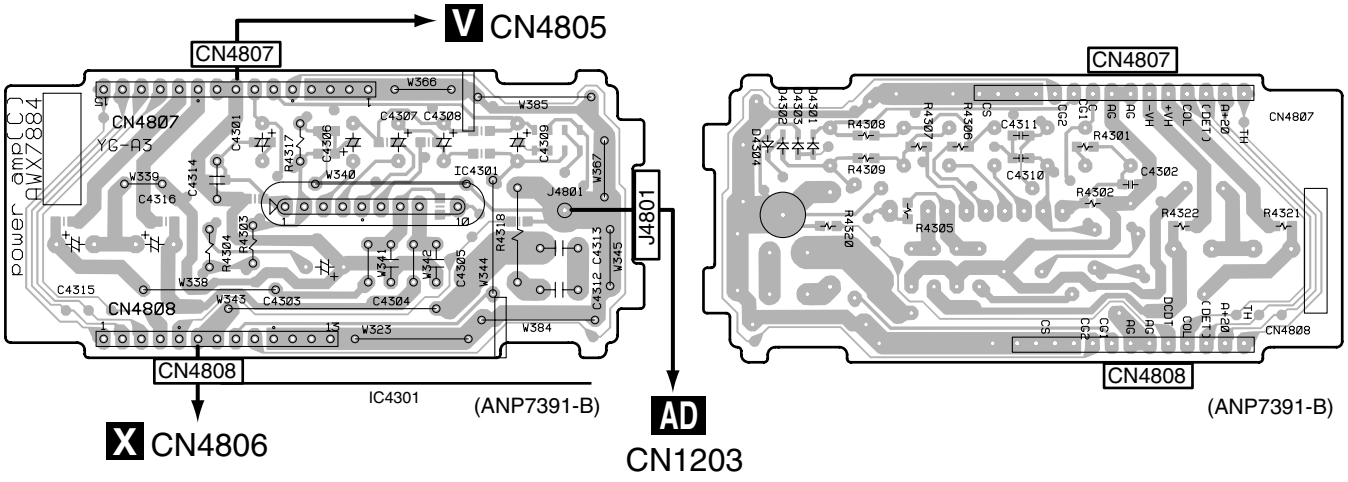
X AH

X AH

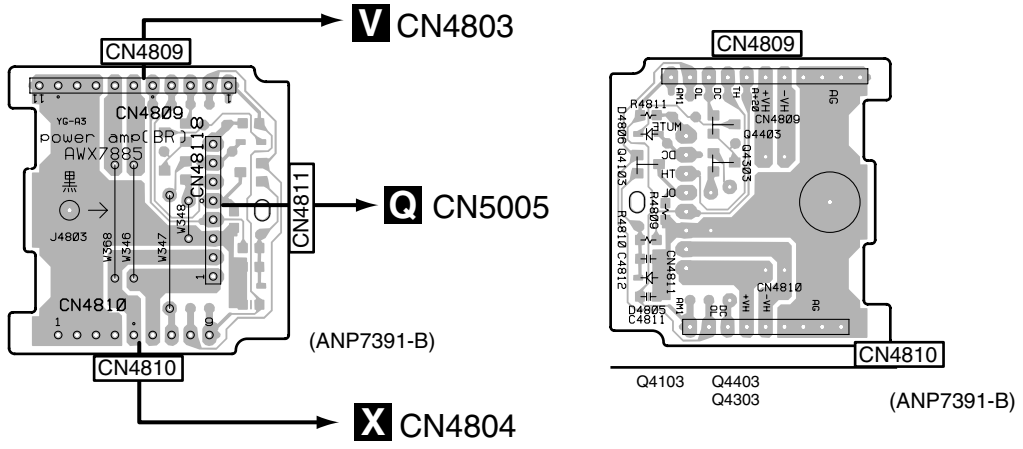
4.18 POWER AMP(C), POWER AMP(BR) and POWER AMP(G) ASSYS

SIDE A **SIDE B**

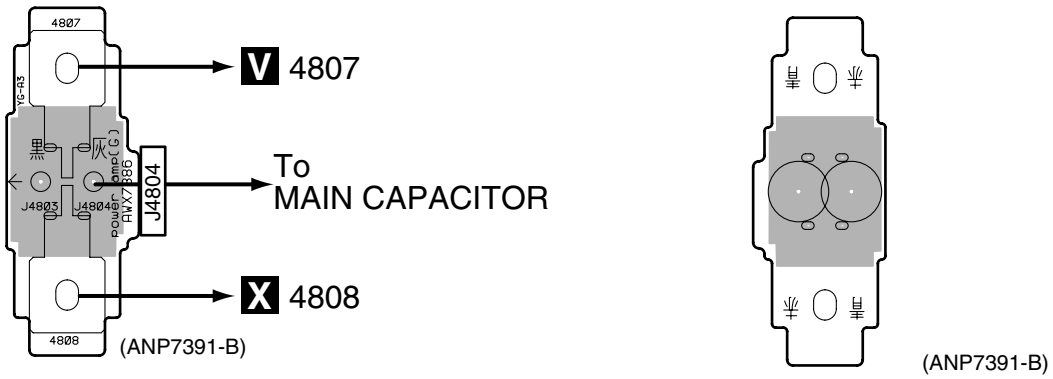
W POWER AMP (C) ASSY



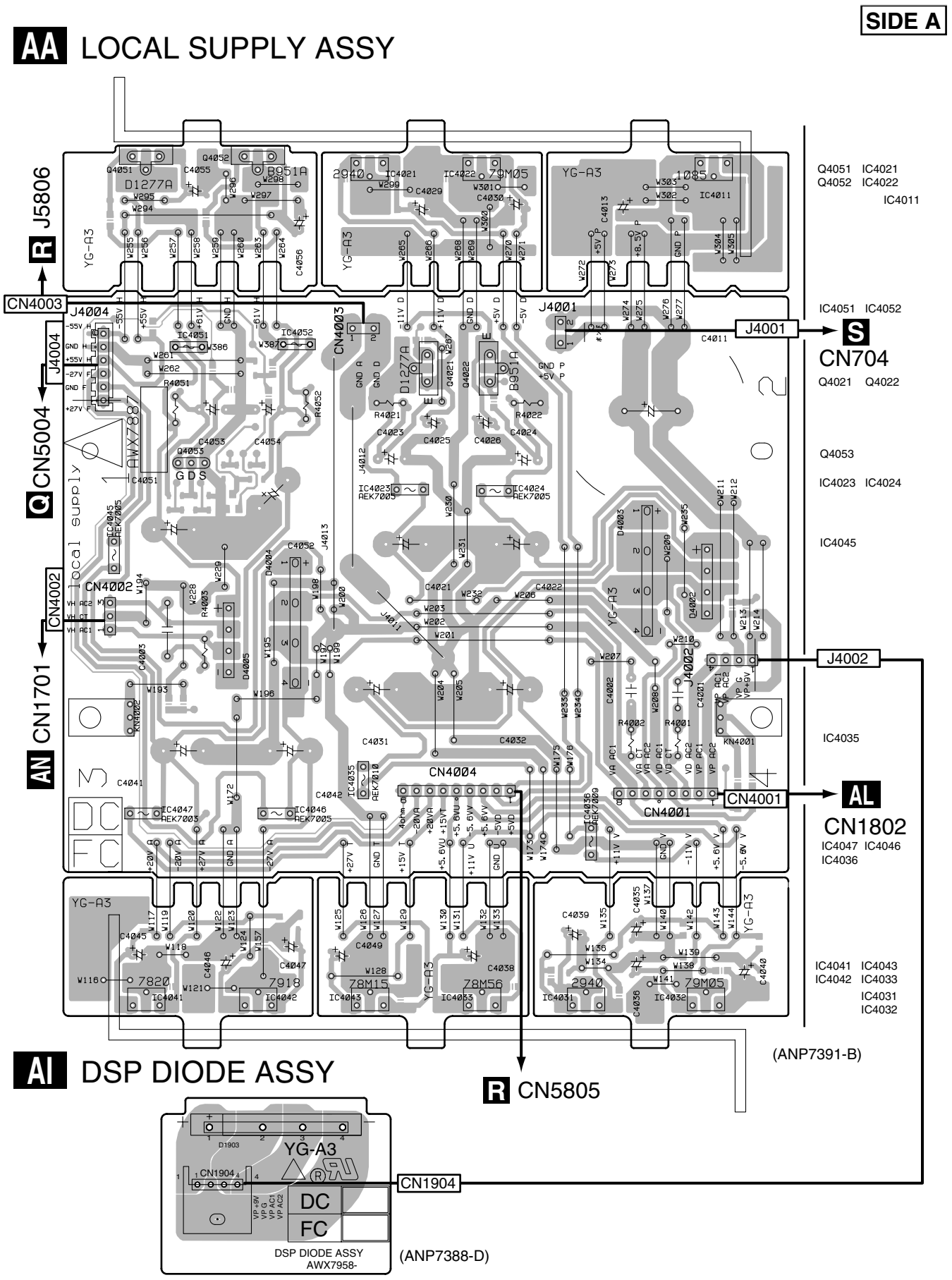
Y POWER AMP (BR) ASSY



Z POWER AMP (G) ASSY

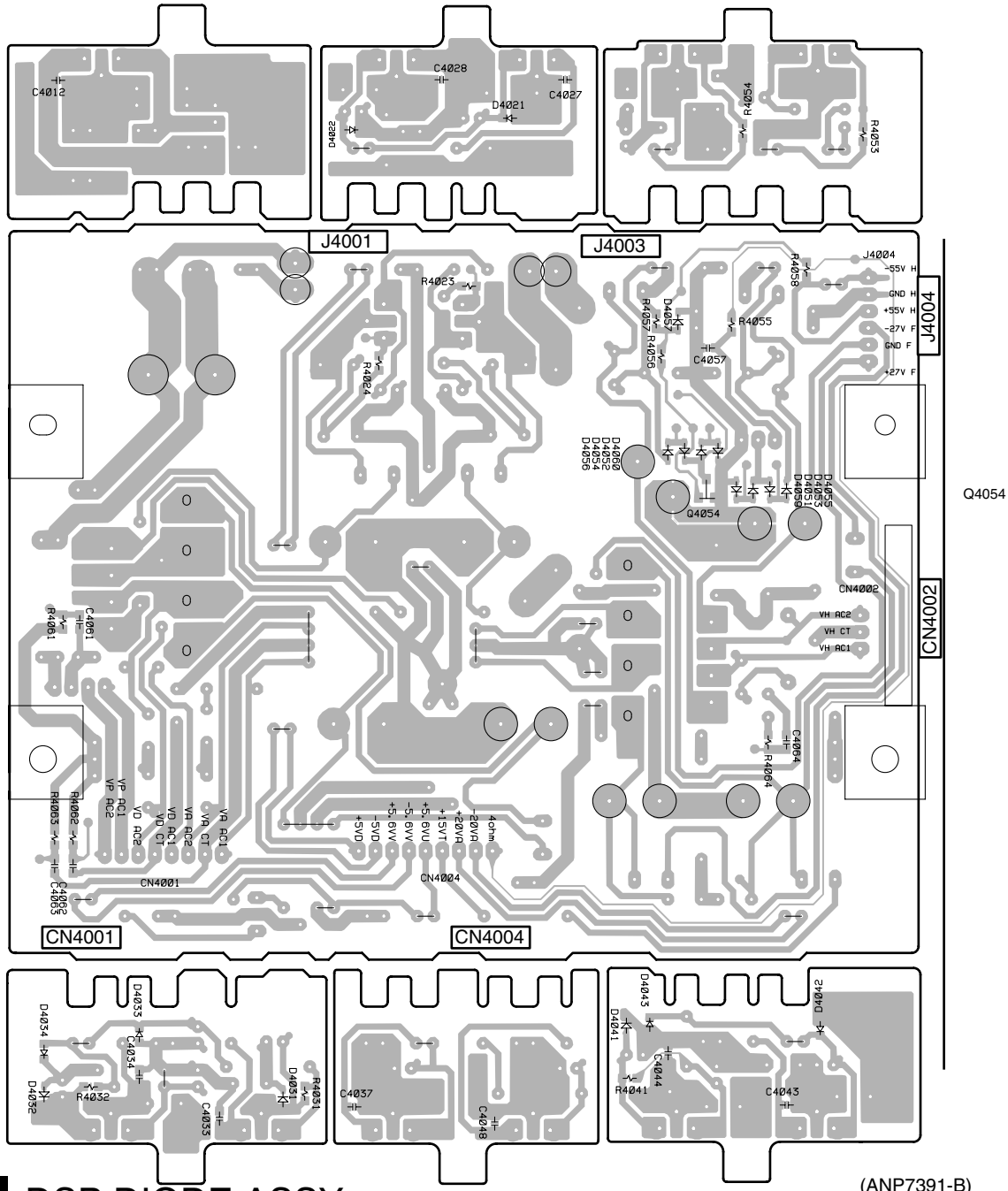


4.19 LOCAL SUPPLY and DSP DIODE ASSYS



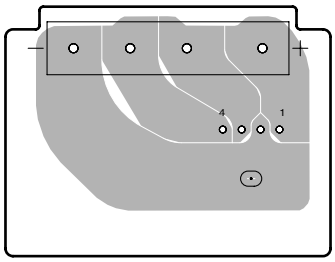
SIDE B

AA LOCAL SUPPLY ASSY



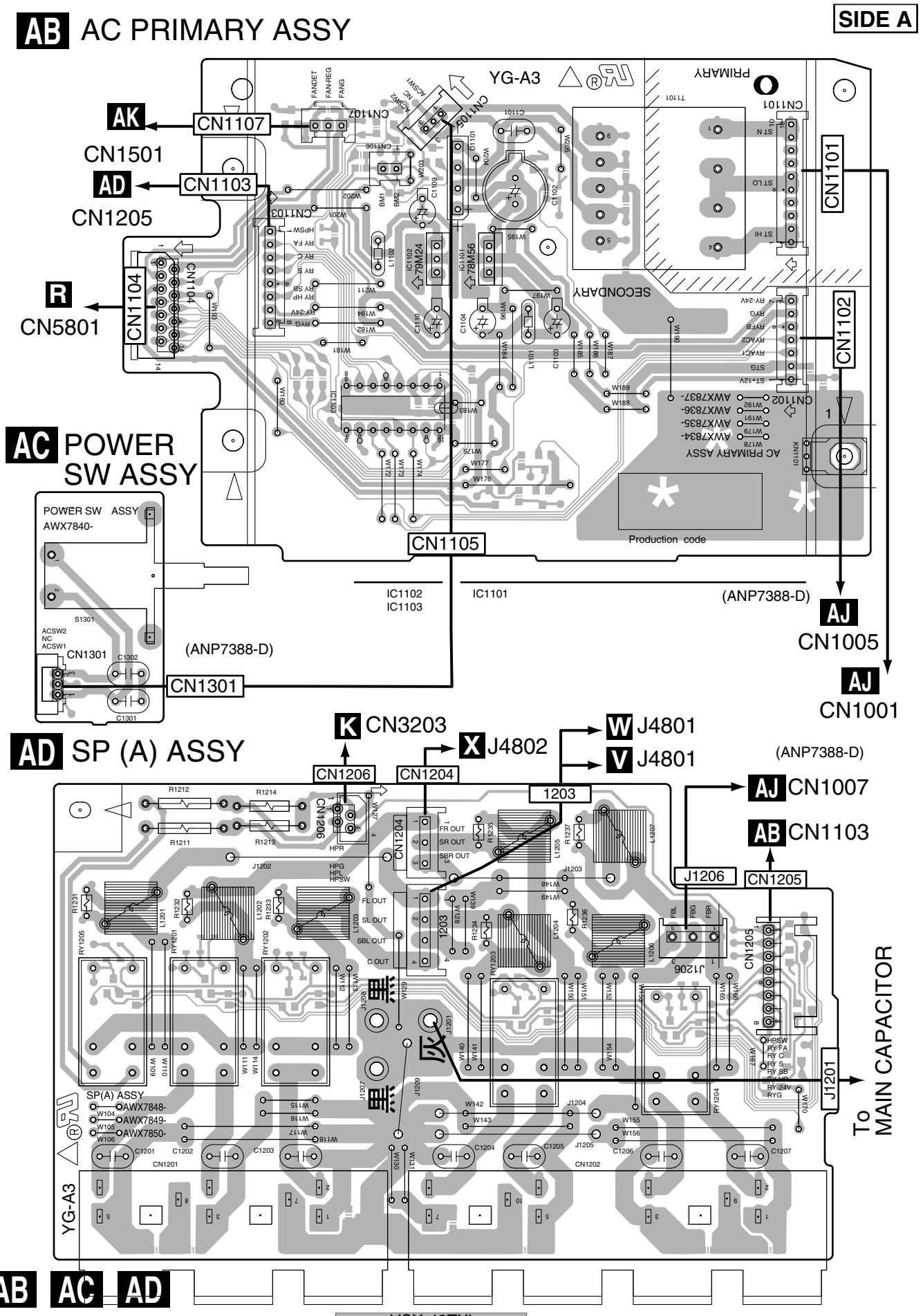
(ANP7391-B)

AI DSP DIODE ASSY



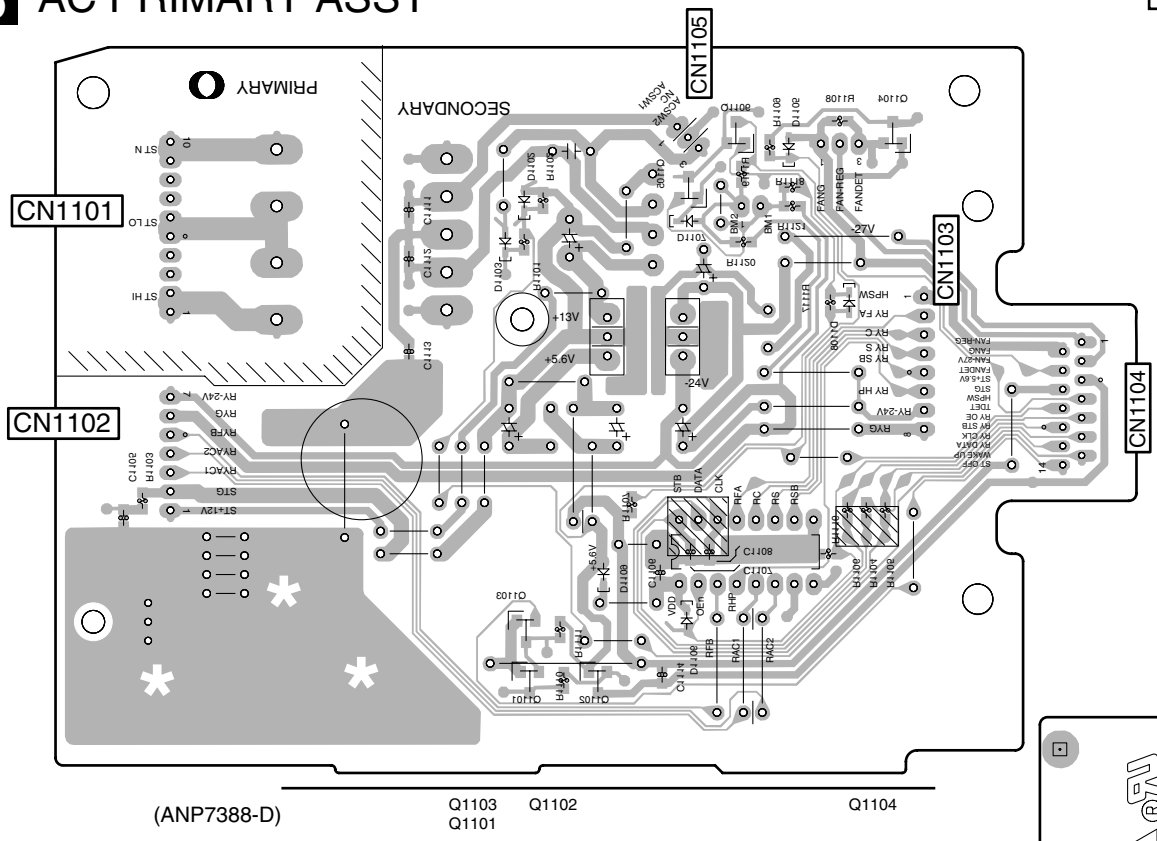
(ANP7388-D)

4.20 AC PRIMARY, POWER SW and SP(A) ASSYS



AB AC PRIMARY ASSY

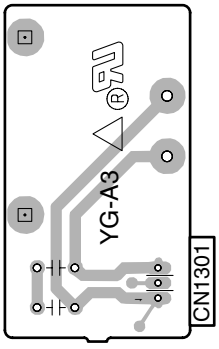
SIDE B



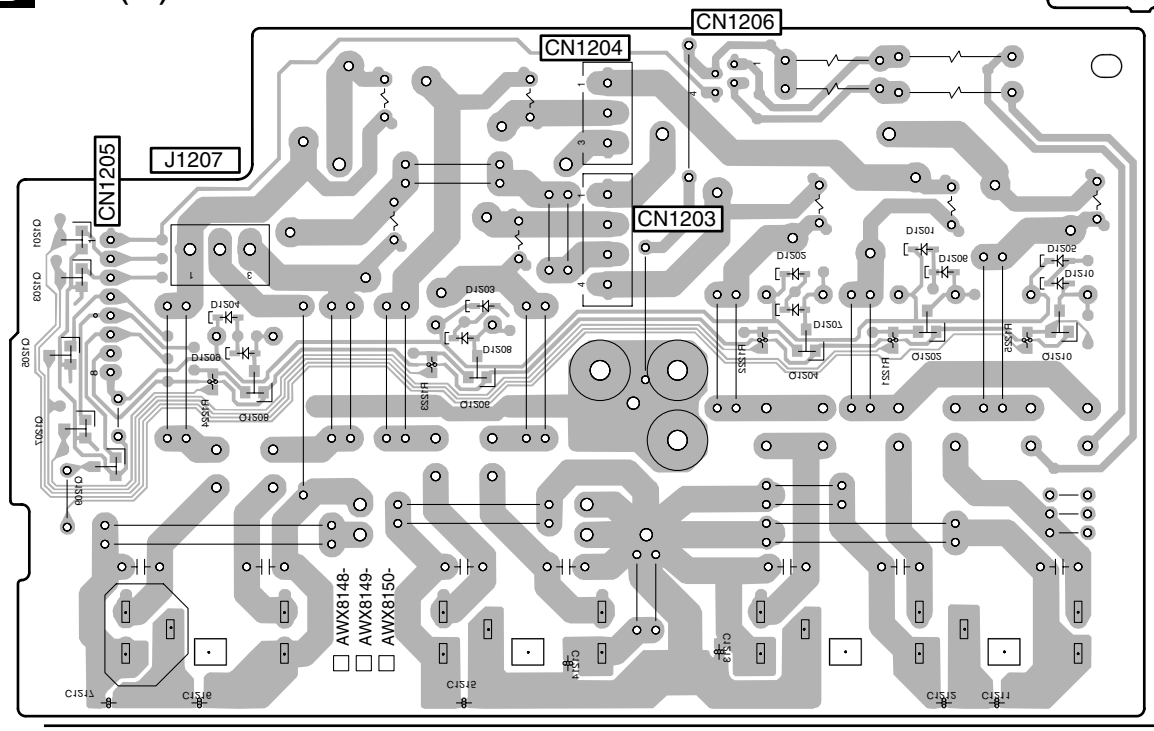
(ANP7388-D)

Q1103 Q1102 Q1104
Q1101

AC POWER SW ASSY



AD SP (A) ASSY



Q1201 Q1205 Q1209 Q1208 Q1206 Q1204 Q1202 Q1210
Q1203 Q1207

(ANP7388-D)

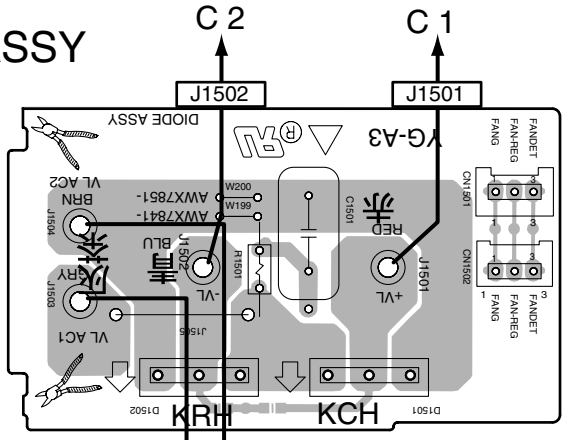
AB AC AD

4.21 TRANS(A), TRANS(B), DIODE and FUSE ASSYS

SIDE A

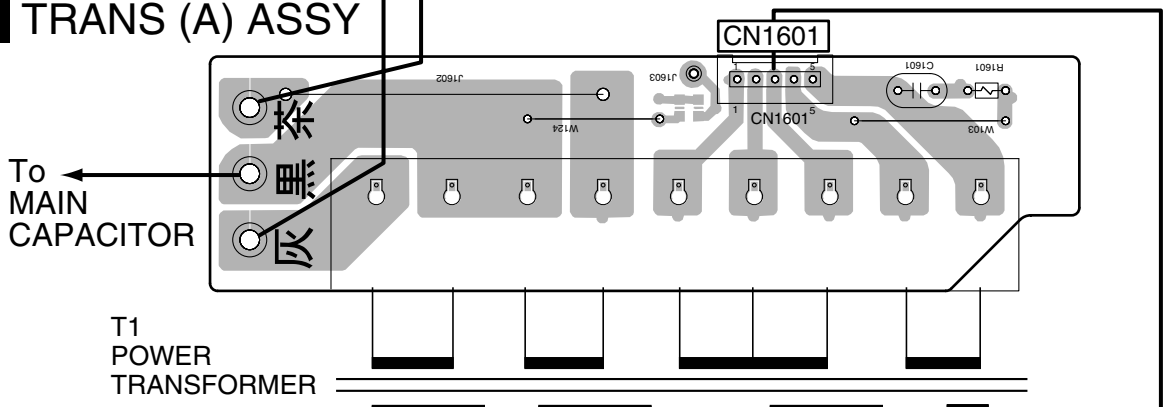
SIDE A

AK DIODE ASSY

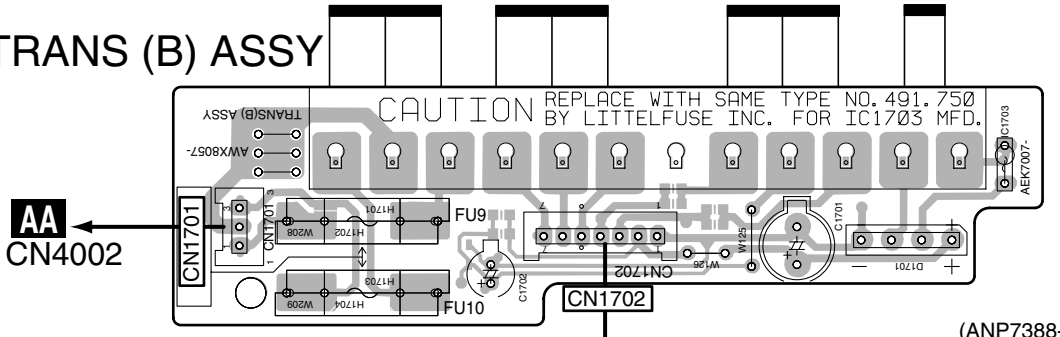


(ANP7388-D)

AM TRANS (A) ASSY

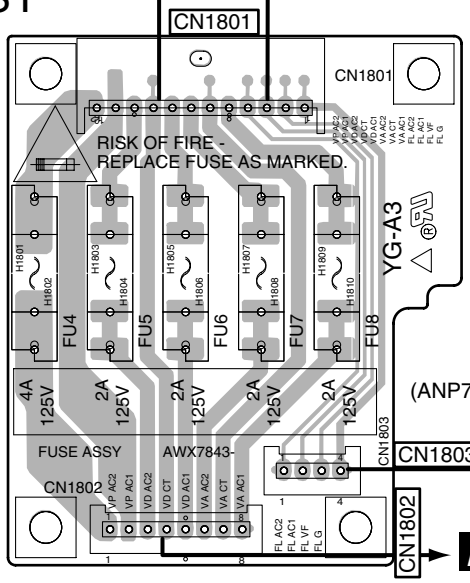


AN TRANS (B) ASSY



(ANP7388-D)

AL FUSE ASSY



(ANP7388-D)

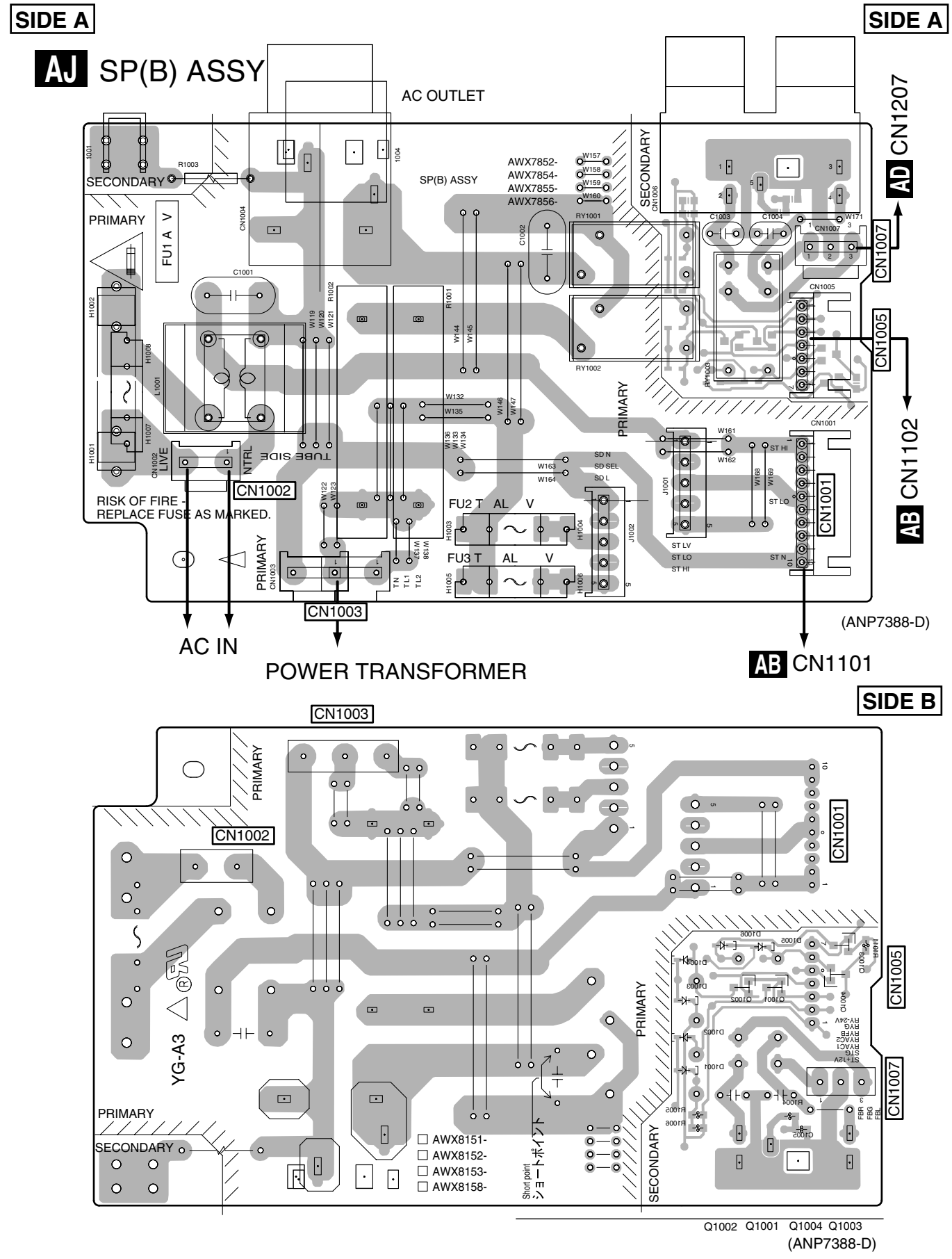
AE CN1901

AA CN4001

AK **AL** **AM** **AN**

AK **AL** **AM** **AN**

4.22 SP(B) ASSY

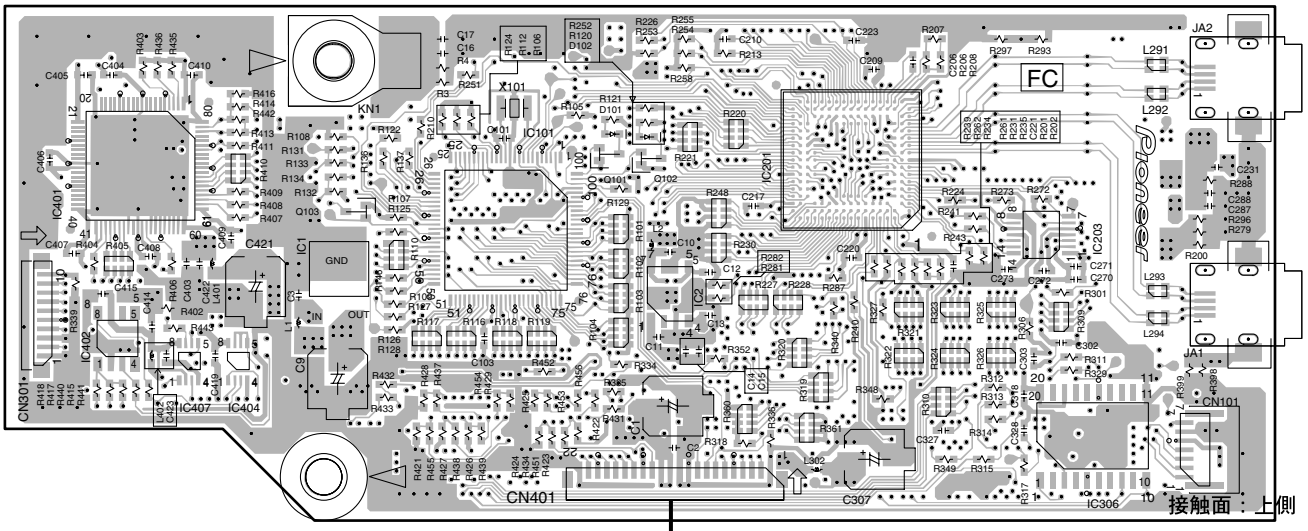

SIDE A
SIDE A
AJ SP(B) ASSY
AC OUTLET
SECONDARY
PRIMARY
FU1 A V
SP(B) ASSY
AWX7852-
AWX7854-
AWX7855-
AWX7856-
SECONDARY
AD CN1207
CN1007
CN1005
AB CN1102
CN1001
AB CN1101
PRIMARY
RISK OF FIRE -
REPLACE FUSE AS MARKED.
CN1002
CN1003
FU2 T AL V
FU3 T AL V
AC IN
POWER TRANSFORMER
(ANP7388-D)
SIDE B
YG-A3
PRIMARY
SECONDARY
□ AWX8151-
□ AWX8152-
□ AWX8153-
□ AWX8158-
Short point
ショートポイント
Q1002 Q1001 Q1004 Q1003
(ANP7388-D)

4.23 1394 MODULE ASSY

SIDE A

SIDE A

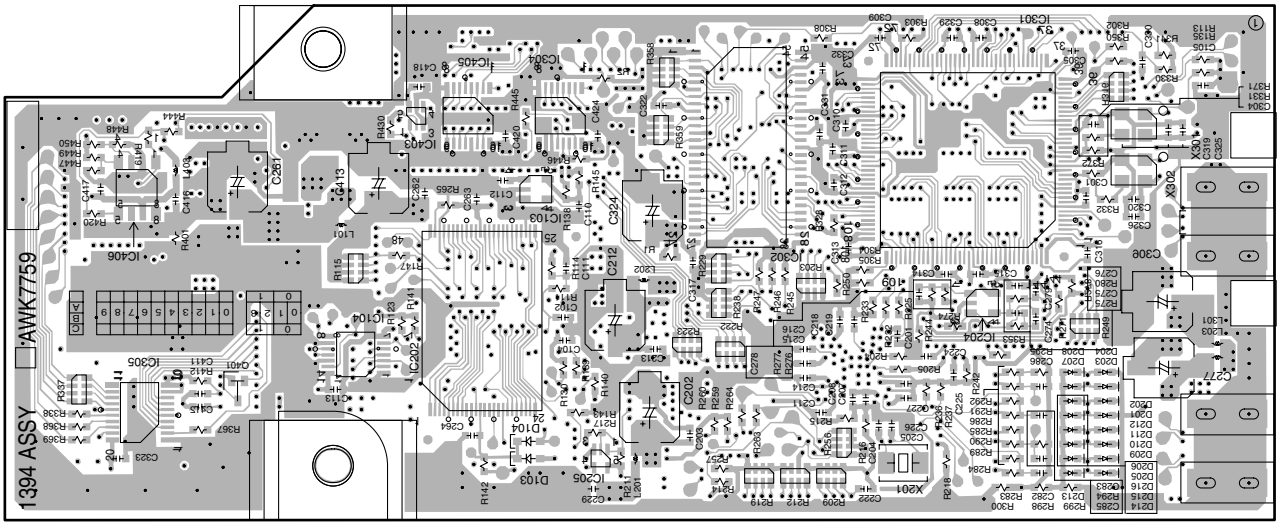
AO 1394 MODULE



(ANP7443-A)

S CN705

SIDE B



(ANP7443-A)

AO **AO**

5. PCB PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω	→	*56 x 10¹* →	*561*	*RD1/4PU 5 6 1 J*
47k Ω	→	*47 x 10³* →	*473*	*RD1/4PU 4 7 3 J*
0.5 Ω	→	*R50*		*RN2H R 5 0 K*
1 Ω	→	*1R0*		*RS1P 1 R 0 K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω	→	*562 x 10¹* →	*5621*	*RN1/4PC 5 6 2 1 F*

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	FM/AM TUNER Module	AXQ7237
NSP	1	VIDEO Assy	AWQ7016
	2	A/V I/O Assy	AWX7938
	2	COMPOSITE Assy	AWX7942
	2	COMPONENT Assy	AWX7953
	2	S-VIDEO Assy	AWX8159
	2	V-CONVERT Assy	AWX8160
NSP	1	A/D & CONTROL Assy	AWM7741
	2	INPUT SEL Assy	AWX7868
	2	MULTI JOG Assy	AWX7869
	2	VOL Assy	AWX7870
	2	MIC AMP Assy	AWX7872
	2	HEAD PHONE Assy	AWX7874
	2	MIC & OPT Assy	AWX7875
	2	VIDEO CONNECT Assy	AWX7876
	2	ANALOG IN&A/D Assy	AWX7878
	2	DISPLAY Assy	AWX8140
	2	FRONT A/V Assy	AWX8189
NSP	1	VR & MOTHER Assy	AWM7744
	2	VR&PRE OUT Assy	AWX7888
	2	MOTHER Assy	AWX8142
	1	DAC10 Assy	AWK7725
	1	DSP3 Assy	AWK7727
	1	DSP Assy	AWK7762
NSP	1	POWER AMP Assy	AWH7004
	2	POWER AMP(L) Assy	AWX7882
	2	POWER AMP(R) Assy	AWX7883
	2	POWER AMP(C) Assy	AWX7884
	2	POWER AMP(BR) Assy	AWX7885
	2	POWER AMP(G) Assy	AWX7886
	2	LOCAL SUPPLY Assy	AWX7887
NSP	1	PS&SP Assy	AWK7764
	2	AC PRIMARY Assy	AWX7834
	2	TRANS(A) Assy	AWX7838
	2	POWER SW Assy	AWX7840
	2	DIODE Assy	AWX7841
	2	FUSE Assy	AWX7843
	2	POSISTER(L) Assy	AWX7844
	2	POSISTER(R) Assy	AWX7846
	2	FL SUPPLY Assy	AWX7871
	2	STANDBY Assy	AWX7901
	2	DSP DIODE Assy	AWX7958
	2	TRANS(B) Assy	AWX8057
	2	SP(A) Assy	AWX8148
	2	SP(B) Assy	AWX8151
	1	1394 Assy	AWK7759

A FM/AM TUNER MODULE

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC201		BA1451F
	IC202		LC72131MD
	Q201, Q204, Q205		2SC2412K
	Q202		DTA124ES
	Q203		DTC124EK
	D201		1SS133
	D202		MTZJ5.1C

COILS AND FILTERS

Mark	No.	Description	Part No.
	L201	FM DET COIL	ATE7003
	F202	FM CERAMIC FILTER	ATF-107
	F201	FM CERAMIC FILTER	ATF-119
	F203	AM CERAMIC FILTER	ATF7026

CAPACITORS

Mark	No.	Description	Part No.
	C206		CCSRCH100D50
	C212, C213, C226, C233-C235		CCSRCH101J50
	C240		CCSRCH101J50
	C231, C232		CCSRCH150J50
	C223		CEAT100M50
	C229		CEAT101M10
	C224		CEAT1R0M50
	C227		CEAT220M25
	C241		CEAT2R2M50
	C243		CEAT330M16
	C228		CEAT3R3M50
	C237		CEAT470M10
	C211		CEJQ1R0M50
	C210		CEJQ470M16
	C204, C238, C613		CKSRYB102K50
	C101, C102, C208, C220, C239		CKSRYB103K50
	C242, C604		CKSRYB103K50
	C216, C217, C225		CKSRYB153K50
	C201, C205, C209, C214, C230		CKSRYB223K50
	C236, C603		CKSRYB223K50
	C221		CKSRYB224K10
	C202, C222		CKSRYB473K16
	C215		CKSRYB681K50

RESISTORS

Mark	No.	Description	Part No.
	R211		RD1/4PU221J
	R221		RD1/4PU222J
	R233		RD1/4PU391J
	R243		RS1/10S0R0J

Mark	No.	Description	Part No.
	R103		RS1/10S331J
	R104		RS1/10S391J
	Other Resistors		RS1/16S###J

OTHERS

	CN201 13P FFCCONNECTOR	52044-1345
	BN201 2P ANTENNA TER.	AKA7002
	SHIELD CASE T	ANK7072
	SHIELD CASE B	ANK7073
	X201 CRYSTAL RES.(7.2MHz)	ASS1093

B A/V I/O ASSY

SEMICONDUCTORS

	IC2053	BA4558F-HT
	IC2052	M62429FP
	IC2002	TC9162AF
	IC2001	TC9164AF
	IC2051	UPC4570C
	Q2051	HN1C03F
	D2052, D2053	1SS355
	D2051	UDZS5.6B

CAPACITORS

	C2025, C2029, C2053, C2054	CCSRCH101J50
	C2063, C2064, C2077, C2078	CCSRCH101J50
	C2071	CCSRCH221J50
	C2079, C2080	CEAT100M50
	C2075, C2076	CEAT1R0M50
	C2055, C2056	CEAT470M25
	C2061, C2065, C2066	CEJQ100M16
	C2051, C2052, C2059, C2060	CEJQ1R0M50
	C2072	CKSRYB102K50
	C2019-C2022, C2069, C2081	CKSRYB103K50
	C2023, C2024, C2027, C2028	CKSRYB473K25
	C2082, C2083	CKSRYB473K50

RESISTORS

	R2065	RD1/2LMF561J
⚠	R2067, R2068	RS1/16S102J
⚠	R2031, R2032, R2037, R2038	RS1/16S470J
⚠	R2059, R2060	RS1/16S470J
	Other Resistors	RS1/16S###J

OTHERS

	CN2002 JE CONNECTOR	17PS-JE
	2001 6P PIN JACK	AKB7073
	2002-2004 4P PIN JACK	AKB7075
	JA2051 2P PIN JACK	DKB1045
	CN2001 17P SOCKET	KP200TA17L
	2051 2P MINI JACK	VKN1034

C COMPOSITE ASSY

SEMICONDUCTORS

	IC2108, IC2109	BU4094BCF
	IC2106	NJM2296M
	IC2104	PDC084A
	IC2101, IC2107	TC74HC4051AFT
	IC2102, IC2103	TC74HC4053AFT
	IC2105	TK15420M
	Q2101-Q2103, Q2105-Q2108	2SC4081
	Q2104	UN5212
	D2101-D2103	1SS355

Mark	No.	Description	Part No.

COILS AND FILTERS

	X2101 CRYSTAL RES.(14.3MHz)	ASS1056
	L2102, L2103	LAU100J
	L2101	LAU330J

CAPACITORS

	C2118	CCSRCH100D50
	C2123, C2132	CCSRCH101J50
	C2119	CCSRCH150J50
	C2120	CCSRCH180J50
	C2139, C2151-C2153, C2164	CCSRCH181J50
	C2121, C2122	CCSRCH240J50
	C2115, C2129, C2177-C2180	CEAT100M50
	C2101-C2106, C2114, C2124, C2125	CEAT101M10
	C2135, C2136, C2141, C2142	CEAT101M10
	C2165, C2166	CEAT101M10
	C2131	CEAT1R0M50
	C2107-C2113, C2137, C2138	CKSRYB103K50
	C2143, C2144, C2154-C2156	CKSRYB103K50
	C2159-C2161, C2167, C2168, C2170	CKSRYB103K50
	C2130	CKSRYB122K50
	C2116, C2126, C2127, C2140	CKSRYB473K25

RESISTORS

	Other Resistors	RS1/16S###J

OTHERS

	CN2101 JE CONNECTOR	19PS-JE
	2102-2105 2P PIN JACK	AKB7076
	JA2101 3P PIN JACK	AKB7109
	CN2102 12P SOCKET	KP200TA12L

D S-VIDEO ASSY

SEMICONDUCTORS

	IC2310	BU4094BCF
	IC2305	LA7213
	IC2308, IC2309	NJM2296M
	IC2306	TC74HC4051AFT
	IC2303, IC2304	TC74HC4053AFT
	IC2301, IC2302	TC74LVX4051FT
	IC2307	TK15420M
⚠	Q2303	2SA1576A
⚠	Q2302	2SC4081
	Q2314	HN1B04FU
	Q2301	UN5212
	D2304, D2305, D2307	1SS355

CAPACITORS

	C2352, C2353, C2376-C2381	CCSRCH181J50
	C2390-C2392	CEAT100M50
	C2301-C2306, C2339, C2340	CEAT101M10
	C2347, C2348, C2357, C2358	CEAT101M10
	C2361, C2362, C2385, C2386	CEAT101M10
	C2338	CEAT3R3M50
	C2313-C2318, C2325-C2327	CKSRYB103K50
	C2330-C2333, C2335, C2336	CKSRYB103K50
	C2341, C2342, C2349, C2350, C2356	CKSRYB103K50
	C2359, C2360, C2363, C2364	CKSRYB103K50
	C2382-C2384, C2387, C2389	CKSRYB103K50
	C2319-C2324, C2328, C2351	CKSRYB104K16
	C2373-C2375, C2393, C2394	CKSRYB104K16

Mark No.	Description	Part No.
	C2307-C2312	CKSRYB473K25
RESISTORS		
	Other Resistors	RS1/16S###J
OTHERS		
	CN2301 JE CONNECTOR	17PS-JE
	CN2302-CN2305 4P MINI DIN SOCKET	AKP7023
	JA2301 4P MINI DIN SOCKET	AKP7049
	CN2306 8P SOCKET	KP200TA8L

E V-CONVERT ASSY

Mark No.	Description	Part No.
SEMICONDUCTORS		
	IC2862	BU4094BCF
	IC2852	MM1093NF
⚠	IC2863	NJM78M09FA
	IC2853	TA1270BF
	IC2859, IC2860	TC74LVX4053FT
	IC2851	TC90A49F
	IC2854-IC2858	TK15420M
	Q2851, Q2852	2SA1576A
⚠	Q2902	2SA1576A
	Q2853, Q2854	2SC4081
⚠	Q2901	2SC4081
	Q2904	2SC4081
COILS AND FILTERS		
	L2856 CHIP FERRITE BEAD	ATL7002
	L2852-L2854, L2857	LAU100J
	L2855	LAU330J
	L2859	LCTA1R0J2520
CAPACITORS		
	C2865, C2876, C2887	CCSRCH100D50
	C2885	CCSRCH101J50
	C2919, C2920	CCSRCH120J50
	C2867	CCSRCH181J50
	C2886	CCSRCH390J50
	C2881	CCSRCH391J50
	C2873	CCSRCH560J50
	C2879	CCSRCH6R0D50
	C2851, C2981, C2982, C2989-C2991	CEAT100M50
	C2855, C2860, C2862, C2868	CEAT101M10
	C2892, C2893, C2903, C2904	CEAT101M10
	C2909, C2910, C2917, C2918, C2928	CEAT101M10
	C2938, C2945, C2946, C2970, C2971	CEAT101M10
	C2853	CEAT1R0M50
	C2924, C2926	CEAT2R2M50
	C2884, C2985	CEAT470M10
	C2874, C2877, C2880	CEAT4R7M50
	C2882	CKSRYB102K50
	C2854, C2856, C2857, C2859, C2861	CKSRYB103K50
	C2863, C2866, C2869-C2872, C2875	CKSRYB103K50
	C2878, C2883, C2890, C2891	CKSRYB103K50
	C2894-C2897, C2901, C2902	CKSRYB103K50
	C2907, C2908, C2911, C2912	CKSRYB103K50
	C2915, C2916, C2923, C2929, C2937	CKSRYB103K50
	C2943, C2944, C2967, C2978, C2979	CKSRYB103K50
	C2852, C2925, C2930-C2935, C2966	CKSRYB104K16
	C2983, C2984, C2986	CKSRYB104K16
	C2994-C2996	CKSRYB105K6R3
	C2864	CKSRYB122K50
	C2921	CKSRYB222K50
	C2927	CKSRYB223K50
	C2922	CKSRYB224K10
	C2858	CKSRYB474K10
	C2969	CKSRYB561K50
RESISTORS		
	Other Resistors	RS1/16S###J
OTHERS		
	CN2851 JE CONNECTOR	09PS-JE
	X2851, X2853 CRYSTAL RES.(3.58MHz)	ASS1091
	X2852 CRYSTAL RES.(4.43MHz)	ASS1092
	X2854 Ceramic RES.(503kHz)	ASS7036
	CN2852 18P SOCKET	KP200TA18L

F COMPONENT ASSY

Mark No.	Description	Part No.
SEMICONDUCTORS		
	IC2507	BU4094BCF
	IC2505, IC2506	OPA2652U
	IC2509	SP232AEP
	IC2504	TC74HC4053AFT
	IC2501, IC2502	TC74LVX4052FT
	IC2503	TC74LVX4053FT
⚠	Q2502	2SA1576A
⚠	Q2501	2SC4081
	Q2503	2SC4081
	D2501-D2503	1SS355
COILS AND FILTERS		
	L2501	LAU1R0J
CAPACITORS		
	C2541, C2542	CEAT100M50
	C2524, C2525, C2532, C2533	CEAT101M10
	C2537, C2538, C2567	CEAT101M10
	C2563-C2565, C2568	CEAT1R0M50
	C2510-C2517, C2522, C2523	CKSRYB103K50
	C2530, C2531, C2535, C2536	CKSRYB103K50
	C2557, C2558, C2569, C2571-C2579	CKSRYB103K50
	C2581	CKSRYB103K50
	C2566	CKSRYB104K25
	C2582	CKSRYB331K50
RESISTORS		
	Other Resistors	RS1/16S###J
OTHERS		
	CN2501 JE CONNECTOR	19PS-JE
	JA2502 6P PIN JACK	AKB7127
	JA2501 6P PIN JACK	AKB7141
	JA2504 MULTI JACK	AKN7014
	CN2505 9P D-SUB SOCKET	AKP1213
	CN2502 10P SOCKET	KP200TA10L
	2501 SCREW TERMINAL	VNE1948

G VIDEO CONNECT ASSY

Mark No.	Description	Part No.
OTHERS		
	CN3303 10P PLUG	KM200TA10
	CN3301 12P PLUG	KM200TA12
	CN3304 18P PLUG	KM200TA18
	CN3302 8P PLUG	KM200TA8

H MIC AMP ASSY

Mark No.	Description	Part No.
SEMICONDUCTORS		
	IC3201	M5220FP
	Q3204	HN1C01FU
	Q3202	RN4903
	D3201	1SS355
	D3202	UDZS5.6B
CAPACITORS		
	C3211, C3220, C3226	CCSRCH101J50
	C3214	CCSRCH330J50
	C3210, C3218, C3221, C3224, C3227	CEAL100M16
	C3231, C3232	CEAL101M10
	C3206	CEAL220M16
	C3212, C3215	CEAL220M35
	C3223, C3229, C3230	CEAL330M25
	C3250, C3253, C3303	CKSRYB102K50
	C3213, C3238, C3252, C3302	CKSRYB103K50
	C3205, C3228	CKSRYB104K16
RESISTORS		
	Other Resistors	RS1/16S###J
OTHERS		
	CN3207	52044-1145
	CN3205	S4B-PH-K
	KN3202	VNF1084

I MIC ASSY

Mark No.	Description	Part No.
COILS AND FILTERS		
	L3202 (CHIP INDCTER)	QTL1013
	L3203, L3204 (CHIP INDCTER)	VTL1075
CAPACITORS		
	C3203	CEAL470M10
	C3201	CKSRYB103K50
	C3202	CKSRYB104K16
RESISTORS		
	Other Resistors	RS1/16S###J
OTHERS		
	CN3202 KR CONNECTOR	B4B-PH-K
	CN3201 KR CONNECTOR	B5B-PH-K
	JA3201 OPTICAL LINK IN	GP1FA502RZ
	JA3202 REMO CON. JACK	RKN1004

J FRONT A/V ASSY

Mark No.	Description	Part No.
CAPACITORS		
	C3236	CKSRYB102K50
	C3235, C3335	CKSRYB103K50
	C3234, C3245	CKSRYB104K16
	C3233	CKSRYB473K50
RESISTORS		
	Other Resistors	RS1/16S###J
OTHERS		
	JA3204 FRONT PIN JACK	AKX7014
	CN3204 KR CONNECTOR	B8B-PH-K

K HEAD PHONE ASSY

Mark No.	Description	Part No.
CAPACITORS		
	C3209	CKSRYB104K16
RESISTORS		
	Other Resistors	RS1/16S###J
OTHERS		
	CN3203 4P FFC CONNECTOR	52045-0445
	JA3203 HEADPHONE JACK	RKB1014
	KN3201 EARTH METAL FITT.	VNF1084

L ANALOG IN/D ASSY

Mark No.	Description	Part No.
SEMICONDUCTORS		
	IC3421, IC3441, IC3461, IC3481	AK5383VS
	IC3901	BU4052BCF
	IC3423	M5220P
	IC3501, IC3502, IC3601, IC3602	NJM2068D
	IC3701, IC3702, IC3801, IC3802	NJM2068D
⚠	IC3402	PQ3DZ13
	IC3401, IC3422	TC9163AF
	IC3424, IC3462	UPC4570C
	Q3501, Q3601, Q3701, Q3801	HN1C03F
	Q3401	RN4903
	D3501, D3502, D3601, D3602	DAN202K
	D3701, D3702, D3801, D3802	DAN202K
	D3503, D3504, D3603, D3604	DAP202K
	D3703, D3704, D3803, D3804	DAP202K
	D3901, D3902	UDZS6.2B
COILS AND FILTERS		
	L3401, L3402, L3421, L3422	ATL7002
	L3441, L3442, L3461, L3462	ATL7002
	L3481, L3482 (CHIP BEAD)	ATL7002
	L3423, L3443, L3463, L3483 (CHIP SOLID INDUCTOR)	QTL1013
CAPACITORS		
	C3411-C3414, C3435, C3436	ACH7163
	C3473, C3474 (470uF/25V)	ACH7163
	C3405, C3428, C3503, C3504	CCSRCH101J50
	C3549, C3550, C3563, C3564	CCSRCH101J50
	C3567, C3568, C3603, C3604	CCSRCH101J50
	C3703, C3704, C3755, C3756	CCSRCH101J50
	C3759, C3760, C3803, C3804	CCSRCH101J50
	C3401, C3547, C3548, C3559, C3560	CEAT100M50
	C3951, C3952	CEAT100M50
	C3515, C3516, C3615, C3616	CEAT101M10
	C3715, C3716, C3815, C3816	CEAT101M10
	C3429, C3430	CEAT101M25
	C3551, C3552	CEAT470M16
	C3402	CEHAZL101M10
	C3421, C3422, C3441, C3442	CENA100M50
	C3461, C3462, C3481, C3482	CENA100M50
	C3509-C3512, C3523, C3524	CENA100M50
	C3561, C3562, C3609-C3612	CENA100M50
	C3623, C3624, C3709-C3712	CENA100M50
	C3723, C3724, C3753, C3754	CENA100M50
	C3757, C3758, C3809-C3812	CENA100M50
	C3823, C3824	CENA100M50
	C3565, C3566	CENA220M25
	C3501, C3502, C3601, C3602	CENA470M25
	C3701, C3702, C3801, C3802	CENA470M25
	C3427, C3447, C3467, C3487	CKSRYB102K50
	C3505-C3508, C3513, C3514	CKSRYB103K50
	C3605-C3608, C3613, C3614	CKSRYB103K50
	C3705-C3708, C3713, C3714	CKSRYB103K50

Mark	No.	Description	Part No.
		C3805-C3808, C3813, C3814	CKSRYB103K50
		C3423, C3424, C3443, C3444	CKSRYB104K16
		C3463, C3464, C3483, C3484	CKSRYB104K16
		C3517, C3518, C3521, C3522, C3575	CKSRYB104K16
		C3577, C3579, C3581, C3617, C3618	CKSRYB104K16
		C3621, C3622, C3717, C3718	CKSRYB104K16
		C3721, C3722, C3817, C3818	CKSRYB104K16
		C3821, C3822	CKSRYB104K16
		C3519, C3520, C3619, C3620	CKSRYB224K10
		C3719, C3720, C3819, C3820	CKSRYB224K10
		C3425, C3445, C3465, C3485	CKSRYB471K50
		C3403, C3404, C3431, C3432	CKSRYB473K50
		C3953, C3954	CKSRYB473K50
		C3557, C3558	CQMA242J50
		C3555, C3556	CQMA822J50
		RESISTORS	
⚠		R3411-R3414, R3471, R3472	RD1/4MUF470J
		R3525-R3528, R3625-R3628	RS1/16S1002F
		R3725-R3728, R3825-R3828	RS1/16S1002F
		R3765, R3766	RS1/16S1201F
		R3589, R3590	RS1/16S1801F
		R3509, R3510, R3609, R3610	RS1/16S2701F
		R3709, R3710, R3809, R3810	RS1/16S2701F
		R3587, R3588, R3763, R3764	RS1/16S2702F
		R3511-R3516, R3611-R3616	RS1/16S3901F
		R3711-R3716, R3811-R3816	RS1/16S3901F
⚠		R3407, R3408, R3431-R3436	RS1/16S470J
⚠		R3951, R3952	RS1/16S472J
		R3501, R3502, R3601, R3602	RS1/16S6801F
		R3701, R3702, R3801, R3802	RS1/16S6801F
		Other Resistors	RS1/16S###J
		OTHERS	
		3401,3501,3503,3504 4P PIN JACK	AKB7075
		CN3402 17P SOCKET	KP200TA17L
		CN3401 20P SOCKET	KP200TA20L
		CN3403 30P B TO B CONNECTOR	VKN1395

M DISPLAY ASSY

Mark	No.	Description	Part No.
		SEMICONDUCTORS	
		IC3002	BU2092F
		IC3001	PD5686B
		IC3061	TC74HC4053AFT
		Q3052	2SA1036K
		Q3061	2SA1576A
		Q3053, Q3054	2SD2114K
		Q3002, Q3062	RN1903
		Q3063	RN2903
		Q3001, Q3003, Q3051	UN5212
		D3061-D3067	1SS355
		D3030, D3031	DAN202K
		D3027	NSPB510-2283
		D3026, D3028, D3029	SLI-343DUW
		D3001, D3003, D3005, D3007,D3009	SLI-343URW
		D3011, D3013, D3015-D3018,D3025	SLI-343URW
		D3019	TLGE68TG
		D3033	UDZS6.2B
		COILSANDFILTERS	
		X3001 CERAMIC RES.(4.19MHz)	ASS7042
		L3001 CHIP BEAD	ATL7002
		SWITCHES AND RELAYS	
		S3081-S3098	ASG7013
		CAPACITORS	
		C3035, C3071, C3075, C3076	CCSRCH101J50
		C3053	CEAT470M50
		C3031, C3061, C3072, C3074	CEJQ101M6R3
		C3022	CEJQ4R7M50
		C3081-C3084	CKSRYB102K50
		C3051, C3062	CKSRYB103K50
		C3027, C3034, C3052, C3073, C3079	CKSRYB104K16
		C3063	CKSRYB153K50
		C3020, C3021	CKSRYB473K50
		RESISTORS	
		R3060	RD1/2LMF103J
⚠		R3050	RD1/4MUF220J
		Other Resistors	RS1/16S###J
		OTHERS	
		3001,3003,3004 4P CABLE HOL.	51048-0400
		3002 5P CABLE HOL.	51048-0500
		CN3001 17P FFC CON.	52492-1720
		V3001 FL TUBE	AAV7081
		J3001 EARTHLEAD WIRE	DE005WE0
		CN3002 3P FFC CONNECTOR	HLEM3S-1
		IC3062 REMOE RECEIVER	NJL64H400A

N INPUT SEL ASSY

Mark	No.	Description	Part No.
		SWITCHES AND RELAYS	
		S3103	ASX7038
		CAPACITORS	
		C3110, C3111	CKSRYB103K50
		RESISTORS	
		R3109, R3110	RS1/16S473J
		OTHERS	
		3104 4P CABLE HOLDER	51048-0400

O MULTI JOG ASSY

Mark	No.	Description	Part No.
		SWITCHES AND RELAYS	
		S3101	ASX7039
		CAPACITORS	
		C3105, C3106	CKSRYB103K50
		RESISTORS	
		R3105, R3106	RS1/16S473J
		OTHERS	
		3102 5P CABLE HOLDER	51048-0500

P VOL ASSY

Mark	No.	Description	Part No.
		SWITCHES AND RELAYS	
		S3102	ASX7037
		CAPACITORS	
		C3108, C3109	CKSRYB103K50
		RESISTORS	
		R3107, R3108	RS1/16S473J

Mark	No.	Description	Part No.
		OTHERS	
		3103 4P CABLE HOLDER	51048-0400

Q VR OUT ASSY

SEMICONDUCTORS

	IC5084	BU4052BCF
	IC5023, IC5063, IC5181, IC5182	NJM2068D
⚠	IC5002	NJM78M15FA
⚠	IC5003	NJM79M15FA
	IC5022, IC5042, IC5062, IC5082	OPA2134PA
	IC5001	TC9274N-016
	IC5021, IC5041, IC5061, IC5081	TC94A07F
	IC5043, IC5083	UPC4570C
	Q5101, Q5102, Q5201, Q5202, Q5204	HN1C03F
	Q5301, Q5302, Q5401, Q5402	HN1C03F
	D5001-D5004	1SS355
	D5085-D5090	DA204K
	D5083, D5084	UDZS6.2B

CAPACITORS

	C5007, C5008, C5021, C5022	ACH7163
	C5033, C5034, C5041, C5042	ACH7163
	C5053, C5054, C5061, C5062	ACH7163
	C5081, C5082 (470uF/25V)	ACH7163
	C5013, C5024, C5044,C5064,C5084	CCSRCH101J50
	C5123, C5124, C5223, C5224	CCSRCH101J50
	C5257, C5258, C5261, C5262	CCSRCH101J50
	C5323, C5324, C5423, C5424	CCSRCH101J50
	C5457, C5458, C5461, C5462	CCSRCH101J50
	C5153, C5154, C5181, C5182	CCSRCH220J50
	C5189, C5190, C5353, C5354	CCSRCH220J50
	C5911, C5912, C5921, C5922	CCSRCH330J50
	C5931, C5932, C5941, C5942	CCSRCH330J50
	C5003-C5006	CEAT100M50
	C5001, C5002	CEAT1R0M50
	C5011, C5012, C5095, C5096	CEAT470M25
	C5151, C5152, C5251, C5252	CEGA470M35
	C5351, C5352, C5451, C5452	CEGA470M35
	C5255, C5256, C5259, C5260	CENA100M50
	C5455, C5456, C5459, C5460	CENA100M50
	C5125-C5128, C5155, C5156	CENA470M25
	C5183, C5184, C5225-C5228	CENA470M25
	C5325-C5328, C5355, C5356	CENA470M25
	C5425-C5428	CENA470M25
	C5121, C5122, C5221, C5222	CENA4R7M50
	C5321, C5322, C5421, C5422	CENA4R7M50
	C5015-C5017, C5031, C5032	CKSRYB103K50
	C5051, C5052, C5071, C5072	CKSRYB103K50
	C5091, C5092, C5185-C5188	CKSRYB103K50
	C5014	CKSRYB104K16
	C5009, C5010, C5025, C5026	CKSRYB473K50
	C5029, C5030, C5045, C5046	CKSRYB473K50
	C5049, C5050, C5065, C5066	CKSRYB473K50
	C5069, C5070, C5085, C5086	CKSRYB473K50
	C5089, C5090, C5097, C5098	CKSRYB473K50
	C5131-C5134, C5233-C5236,C5242	CKSRYB473K50
	C5244, C5331-C5334,C5431-C5434	CKSRYB473K50

RESISTORS

⚠	R5007, R5008, R5021, R5022	RD1/4MUF470J
⚠	R5029, R5030, R5041, R5042	RD1/4MUF470J
⚠	R5049, R5050, R5061, R5062	RD1/4MUF470J
⚠	R5081, R5082	RD1/4MUF470J
⚠	R5001, R5002	RD1/4MUF4R7J
	R5267, R5268, R5467, R5468	RS1/16S1201F
	R5265, R5266, R5465, R5466	RS1/16S2702F
⚠	R5005, R5006	RS1/16S470J
⚠	R5091, R5092	RS1/16S472J
	Other Resistors	RS1/16S###J

OTHERS

	5002,5021 4P PIN JACK	AKB7075
	JA5042 2P PIN JACK	AKB7144
	JA5001 4P PIN JACK	AKB7145
	CN5005 8P CONNECTOR	B08B-XASK-1
	CN5006 14P CONNECTOR	B14B-XASK-1
	CN5002 9P SOCKET	KP200TA9L
	CN5004 6P CONNECTOR	S06B-XASK-1
	JA5041 1P PIN JACK	VKB1074
	CN5003 24P B TO B CON.	VKN1392
	CN5001 30P B TO B CON.	VKN1395

R MOTHER ASSY

SEMICONDUCTORS

	IC5802	AT24C16N-10SI2.5
⚠	IC5806, IC5808	NJM78M15FA
⚠	IC5807, IC5809	NJM79M15FA
	IC5801	PD5821B8
	IC5810	PST9242NR
	IC5803, IC5804	TC74HCT244AF
	IC5811, IC5813	TC7S08FU
	IC5812	TC7W126FU
⚠	Q5805	2SC5174P
⚠	Q5816	2SK2103
⚠	Q5815	IRF7416
	Q5801	RN1903
	Q5806	RN4903
	Q5808, Q5809, Q5818	UN5112
	Q5810	UN511L
	Q5807, Q5817	UN5212
	D5803-D5806, D5814, D5815	1SS355
	D5821-D5823	1SS355
	D5819, D5820	DAN202K
	D5817	DAP202K
	D5801	UDZ11B

COILS AND FILTERS

	L5802, L5803, L5806	ATL7002
	L5804	LCTA1R0J2520
	L5805, L5807-L5809	QTL1013

CAPACITORS

	C5839	ACH7141
	C5829, C5831, C5834, C5836	CEAT100M50
	C5819	CEAT101M16
	C5873	CEAT221M6R3
	C5868	CEAT331M10
	C5847	CEAT471M6R3
	C5818	CEJQ100M16
	C5832, C5837, C5844	CEJQ100M25
	C5801, C5802, C5828, C5830,C5833	CEJQ1R0M50
	C5835	CEJQ1R0M50

Mark	No.	Description	Part No.
	C5848, C5859		CEJQ221M6R3
	C5817, C5838, C5840, C5850,C5858		CKSRYB103K50
	C5860, C5861, C5863, C5864,C5869		CKSRYB103K50
	C5950		CKSRYB103K50
	C5804,C5820,C5841,C5843,C5845		CKSRYB104K16
	C5849, C5856, C5866, C5872		CKSRYB104K16
	C5815		CKSRYB105K6R3
	C5842, C5846		CKSRYB471K50
	C5857, C5862, C5867, C5871		CKSRYB473K50
	C5803		CKSRYF105Z10

RESISTORS

		R5840, R5841	RAB4C104J
		R5901, R5920	RAB4C221J
⚠		R5835, R5836	RD1/4MUF100J
⚠		R5930	RD1/4MUF101J
⚠		R5833, R5837	RD1/4MUF4R7J
		Other Resistors	RS1/16S###J

OTHERS

CN5825 JE CONNECTOR		09R-JE
CN5821, CN5823 JE CONNECTOR		17R-JE
CN5822, CN5824 JE CONNECTOR		19R-JE
CN5806 11P FFC CONNECTOR		52045-1145
CN5802 13P FFC CONNECTOR		52045-1345
CN5807 17P FFC CONNECTOR		52045-1745
CN5801 14P FFC CONNECTOR		52492-1420
J5806 2P CONNECTOR ASSY		ADX7375
J5801 1P BOARD IN WIRE		ADX7376
J5803 1P BOARD IN WIRE		ADX7391
X5801 CERAMIC RES.(15.67MHz)		ASS7043
CN5805 9P CONNECTOR		B09B-XASK-1
CN5804 KR CONNECTOR		B5B-PH-K
CN5827,CN5828 KR CONNECTOR		B6B-PH-K
CN5810,CN5811 17P B TOB CON.		BTEM17S-1S
CN5809 CONNECTOR		BTEM9S-1S
CN5813,CN5815,CN5820 17P PLUG		KM200TA17
CN5814 20P PLUG		KM200TA20
CN5812 7P PLUG		KM200TA7
CN5817 9P PLUG		KM200TA9
5801 PCB BINDER		VEF1040
CN5819 24P B TO B CON.		VKN1405
CN5816,CN5818 30P B TO B CON.		VKN1408
KN5802 EARTH METAL FITT.		VNF1084

S DSP ASSY

SEMICONDUCTORS

		IC301	ADSST21065LKS-264
		IC101	AK4114VQ
		IC304	AYW7023
		IC702	AYW7029
		IC203	BA4558F-HT
		IC703-IC705	BU4094BCFV
		IC302, IC303	HY57V161610DTC-8
		IC402	IS61LV6416-12T
		IC202	IS62C256-45T
		IC403	IS63LV1024-12T
		IC701	M30620SAFP
		IC201	PM4007A
⚠		IC305, IC415, IC713	PQ3DZ13
⚠		IC416	PQ7VZ5
		IC102	TC74HC151AF
		IC204	TC74HCT08AF
		IC406, IC409, IC717	TC74VHC00FT
		IC712	TC74VHC04FT
		IC111, IC413	TC74VHC08FT
		IC114, IC714, IC715, IC718	TC74VHC125FT
		IC716	TC74VHC126FT
		IC110	TC74VHC153FT
		IC112, IC410, IC412	TC74VHC157FT
		IC116	TC74VHC257FT
		IC711	TC74VHC32FT
		IC107	TC74VHC4040FT
		IC707-IC710	TC74VHC573FT
		IC404, IC407, IC411	TC74VHC74FT
		IC414	TC74VHCU04FT
		IC103	TC7SET08F
		IC719-IC721	TC7SET08FU
		IC108	TC7SH04FU
		IC405, IC408	TC7SH86F
		IC115	TC7WH08FU
		IC113	TC7WH157FU
		IC104-IC106	TC7WU04F
		IC205	TK15420M
		IC401	XCA56367PV150
		Q203, Q204	2SA1037K
⚠		Q101, Q210, Q212	2SB1197K
		Q201, Q202	2SC2412K
		Q208, Q209	2SC4081
⚠		Q213	2SD1781K
		Q102	DTC124EK
		Q211	RN1903
		D203	1SS355
		D202	KV1851

COILSANDFILTERS

	F201	ATF7027
	L114, L117, L201, L206, L207	ATL7002
	L303, L305-L307, L405-L407	ATL7002
	L409,L411,L701-L704(CHIP BEAD)	ATL7002
	L202	LCTA680J2520
	L101-L108, L110, L113(CHIP IND.)	QTL1013
	L118-L120, L203, L204, L413	QTL1013

CAPACITORS

	C166, C231, C441, C442	CCSRCH150J50
	C120, C128, C136, C165	CCSRCH220J50
	C272	CCSRCH221J50
	C119, C127, C135	CCSRCH470J50
	C216	CCSRCH561J50
	C211	CCSRCH750J50
	C103, C111, C124, C132, C140	CEAT101M16
	C143, C153, C167, C234	CEAT101M16
	C180, C183, C312, C316, C703	CEAT101M6R3
	C220	CEAT470M10
	C147, C207, C209, C219, C254	CEAT470M16
	C476, C485	CEHAZA101M10
	C158, C161	CEHAZA470M16
	C302	CEHAZL101M25
	C306, C309, C447, C448, C701	CEJQ101M6R3
	C704	CEJQ101M6R3
	C481, C482, C718, C744, C745	CEJQ470M16

Mark	No.	Description	Part No.
	C229		CEJQNP4R7M25
	C164		CFTYA474J50
A	C223, C224, C456		CKSQYB105K10
	C222, C323, C325, C331, C334		CKSRYB102K50
	C336, C341, C349, C351, C364		CKSRYB102K50
	C423, C430, C452, C455, C462		CKSRYB102K50
	C464, C469, C471		CKSRYB102K50
	C108, C112, C116, C117, C123		CKSRYB103K50
	C125, C131, C133, C139, C152		CKSRYB103K50
	C202, C214, C232, C233, C273		CKSRYB103K50
	C454, C458, C477, C479		CKSRYB103K50
	C101, C105, C109, C113, C121		CKSRYB104K16
	C129, C138, C141, C144		CKSRYB104K16
B	C149, C150, C155, C156, C160		CKSRYB104K16
	C168, C172, C174, C176, C178		CKSRYB104K16
	C181, C185, C189, C191		CKSRYB104K16
	C204-C206, C208, C210		CKSRYB104K16
	C212, C213, C215, C225-C228		CKSRYB104K16
	C230, C235, C237, C240-C242		CKSRYB104K16
	C244, C248, C251, C252, C255		CKSRYB104K16
	C257, C304, C315, C318, C320		CKSRYB104K16
	C322, C328, C330, C338, C340		CKSRYB104K16
	C343, C346, C347, C354		CKSRYB104K16
C	C356, C357, C360, C362, C366		CKSRYB104K16
	C368, C384, C388-C391, C393		CKSRYB104K16
	C395, C398, C400, C401, C403		CKSRYB104K16
	C405, C407, C422, C424, C427		CKSRYB104K16
	C429, C431, C434, C436		CKSRYB104K16
	C438, C439, C444, C446, C450		CKSRYB104K16
	C460, C461, C467, C473, C478		CKSRYB104K16
	C480, C484, C487, C702, C705		CKSRYB104K16
	C708, C710, C712-C714, C717		CKSRYB104K16
	C719, C721, C723, C725, C727		CKSRYB104K16
	C729, C731, C733, C736, C737		CKSRYB104K16
D	C739, C741, C742, C746, C747		CKSRYB104K16
	C749, C751-C756		CKSRYB104K16
	C203		CKSRYB223K50
	C154, C157, C159, C236		CKSRYB471K50
	C238, C239, C243, C247		CKSRYB471K50
	C249, C250, C253, C256, C305		CKSRYB471K50
	C317, C319, C321, C327, C329		CKSRYB471K50
	C337, C339, C345, C348, C353		CKSRYB471K50
	C355, C358, C359, C361, C365		CKSRYB471K50
	C367, C386, C387, C397, C402		CKSRYB471K50
	C404, C408, C443, C449, C451		CKSRYB471K50
E	C453, C459, C463, C465, C466		CKSRYB471K50
	C468, C470, C472, C474		CKSRYB471K50
	C706, C707, C709, C716, C748		CKSRYB471K50
	C750		CKSRYB471K50
	C457		CKSRYB563K16
	RESISTORS		
	R136, R196, R303, R311, R348		RAB4C101J
	R701, R712, R729, R730		RAB4C101J
	R320, R323, R324		RAB4C103J
	R175, R703, R713, R719, R722		RAB4C221J
	R771		RAB4C221J
F	R345, R346, R368, R369, R766		RAB4C330J
	R772		RAB4C330J
	R329, R330, R365, R376, R377		RAB4C470J
	R450		RAB4C470J
	R446, R454, R735-R740		RAB4C473J
	R356, R371, R372		RAB4C680J
	R133		RS1/16S1802D
	R467		RS1/16S3600F
	R468		RS1/16S7500F
	Other Resistors		RS1/16S###J
	OTHERS		
	CN706, CN707 14P FJ CONN.		14PL-FJ
	JA107, JA108 2P PIN JACK		AKB7148
	CN709 16P CONNECTOR		AKM7049
	CN708 22P CONNECTOR		AKM7052
	X201 CRYSTAL RES.(18.43MHz)		ASS7009
	X101 CRYSTAL RES.(24.58MHz)		ASS7025
	X401 CRYSTAL RES.(33.0MHz)		ASS7040
	X701 CRYSTAL RES.(7.7MHz)		ASS7045
	CN704 2P VH SIDE CONN.		B2PS-VH
	CN701, CN702 17P B TO B CON.		BTEM17P-1R
	CN703 9P B TO B CON.		BTEM9P-1R
	JA101-JA104 OPTICAL IN		GP1FA502RZ
	JA105, JA106 OPTICAL OUT		GP1FA502TZ
	CN705 22P CONNECTOR		RKN1063
	CN401 7P FFC CONN.		VKN1411
	CN351 10P FFC CONN.		VKN1600

T DSP3 ASSY

Mark	No.	Description	Part No.
	SEMICONDUCTORS		
	IC501		ADSST21065LKS-264
	IC504(Flash Rom)		AYW7024
	IC502, IC503		HY57V161610DTC-8
⚠	IC505		PQ3DZ13
	COILS AND FILTERS		
	L503, L505-L507		ATL7002
	CAPACITORS		
	C502		CEHAZA101M10
	C506, C509, C512, C516		CEJQ101M16
	C523, C525, C531, C534, C536		CKSRYB102K50
	C541, C549, C551, C564		CKSRYB102K50
	C510		CKSRYB103K50
	C504, C507, C518, C520, C522		CKSRYB104K16
	C528, C530, C538, C540, C543		CKSRYB104K16
	C546, C547, C554, C556, C557		CKSRYB104K16
	C560, C562, C566, C568, C570		CKSRYB104K16
	C572, C573, C575, C584, C586		CKSRYB104K16
	C588, C590, C592, C594, C595		CKSRYB104K16
	C598		CKSRYB104K16
	C505, C517, C519, C521, C527		CKSRYB471K50
	C529, C537, C539, C545, C548		CKSRYB471K50
	C553, C555, C558, C559, C561		CKSRYB471K50
	C565, C567, C571, C574, C587		CKSRYB471K50
	C589, C597		CKSRYB471K50
	RESISTORS		
	R503, R511, R582		RAB4C101J
	R520, R523, R524		RAB4C103J
	R565, R580, R581, R591, R592		RAB4C330J
	R560, R561, R563, R564		RAB4C470J
	R573-R575		RAB4C470J
	R588		RAB4C680J

Mark	No.	Description	Part No.
		Other Resistors	RS1/16S###J

OTHERS

	CN501 16P SOCKET	AKP7122
	CN502 22P SOCKET	AKP7125
	CN551 10P FFC CONN.	VKN1600

U DAC10 ASSY

SEMICONDUCTORS

	IC6021, IC6041, IC6061, IC6081	DF1706E
	IC6105, IC6106, IC6205, IC6206	NJM2068D
	IC6305, IC6306, IC6405, IC6406	NJM2068D
	IC6103, IC6104, IC6203, IC6204	NJM5534DD
	IC6303, IC6304, IC6403, IC6404	NJM5534DD
	IC6101, IC6102, IC6201, IC6202	PCM1704U-1
	IC6301, IC6302, IC6401, IC6402	PCM1704U-1
⚠	IC6001	PQ3DZ13
	IC6022, IC6042, IC6062, IC6082	TC94A07F

COILSANDFILTERS

	L6001, L6021, L6041, L6061, L6081	ATL7002
	L6101-L6104, L6201-L6204 (CHIP)	ATL7002
	L6301-L6304, L6401-L6404	ATL7002
	L6022, L6042, L6062, L6082 (CHIP)	QTL1013

CAPACITORS

	C6147, C6148, C6247, C6248(47uF/25V)	ACH7162
	C6347, C6348, C6447, C6448	ACH7162
	C6031, C6032, C6051, C6052(470uF	ACH7163
	C6071, C6072, C6091, C6092 /25V)	ACH7163
	C6026, C6046, C6066, C6086	CCSRCH101J50
	C6145, C6146, C6245, C6246	CCSRCH101J50
	C6345, C6346, C6445, C6446	CCSRCH101J50
	C6151, C6152, C6251, C6252	CCSRCH220J50
	C6351, C6352, C6451, C6452	CCSRCH220J50
	C6149, C6150, C6249, C6250	CCSRCH330J50
	C6349, C6350, C6449, C6450	CCSRCH330J50
	C6139, C6140, C6239, C6240	CEGA4R7M2A
	C6339, C6340, C6439, C6440	CEGA4R7M2A
	C6002,C6123,C6124,C6223,C6224	CEHAZA101M10
	C6323, C6324, C6423, C6424	CEHAZA101M10
	C6117, C6118, C6121, C6122	CEHAZL101M10
	C6127, C6128, C6217, C6218	CEHAZL101M10
	C6221, C6222, C6227, C6228	CEHAZL101M10
	C6317, C6318, C6321, C6322	CEHAZL101M10
	C6327, C6328, C6417, C6418	CEHAZL101M10
	C6421, C6422, C6427, C6428	CEHAZL101M10
	C6021, C6041, C6061, C6081	CEHAZL221M10
	C6113, C6114, C6213, C6214	CEHAZL471M16
	C6313, C6314, C6413, C6414	CEHAZL471M16
	C6001	CENA100M50
	C6103, C6104, C6109, C6110	CKSRYB103K50
	C6115, C6116, C6125, C6126	CKSRYB103K50
	C6203, C6204, C6209, C6210	CKSRYB103K50
	C6215, C6216, C6225, C6226	CKSRYB103K50
	C6303, C6304, C6309, C6310	CKSRYB103K50
	C6315, C6316, C6325, C6326	CKSRYB103K50
	C6403, C6404, C6409, C6410	CKSRYB103K50
	C6415, C6416, C6425, C6426	CKSRYB103K50
	C6022, C6042, C6062, C6082	CKSRYB104K16
	C6119, C6120, C6219, C6220	CKSRYB104K16
	C6319, C6320, C6419, C6420	CKSRYB104K16
	C6033, C6034, C6053, C6054	CKSRYB222K50
	C6073, C6074, C6093, C6094	CKSRYB222K50
	C6023, C6043, C6063, C6083	CKSRYB471K50
	C6105-C6108, C6205-C6208	CKSRYB471K50
	C6305-C6308, C6405-C6408	CKSRYB471K50
	C6027, C6028, C6047, C6048	CKSRYB473K50
	C6067, C6068, C6087, C6088	CKSRYB473K50
	C6131-C6134, C6141-C6144	CKSRYB473K50
	C6231-C6234, C6241-C6244	CKSRYB473K50
	C6331-C6334, C6341-C6344	CKSRYB473K50
	C6431-C6434, C6441-C6444	CKSRYB473K50
	C6101,C6102,C6111,C6112(47uF/10V)	RCH1139
	C6201,C6202,C6211,C6212(47uF/10V)	RCH1139
	C6301,C6302,C6311,C6312(47uF/10V)	RCH1139
	C6401,C6402,C6411,C6412(47uF/10V)	RCH1139
	C6135,C6136,C6235,C6236(470pF)	VCE1035
	C6335,C6336,C6435,C6436(470pF)	VCE1035
	C6137,C6138,C6237,C6238(220pF)	VCE1040
	C6337,C6338,C6437,C6438(220pF)	VCE1040
	C6129,C6130,C6229,C6230(100pF)	VCE1045
	C6329,C6330,C6429,C6430(100pF)	VCE1045

RESISTORS

	R6101,R6102,R6201,R6202(2.55k)	ACN7105
	R6301,R6302,R6401,R6402(2.55k)	ACN7105
⚠	R6031, R6032, R6051, R6052	RD1/4MUF470J
⚠	R6071, R6072, R6091, R6092	RD1/4MUF470J
	Other Resistors	RS1/16S###J

OTHERS

	CN6001, CN6002 14P FJ CONN.	14R-FJ
	CN6004 17P SOCKET	KP200TA17L
	CN6003 7P SOCKET	KP200TA7L

V POWER AMP(L) ASSY

SEMICONDUCTORS

⚠	IC4101, IC4401, IC4601	PA9008A
⚠	IC4102, IC4302, IC4402, IC4602	PBD001A
⚠	IC4103, IC4403, IC4603	PBD002A
	Q4101, Q4301, Q4401, Q4601	2SA1255
	Q4801, Q4803, Q4805	2SC2412K
	Q4102, Q4402, Q4602	2SC3138
	Q4104, Q4204, Q4304, Q4404, Q4604	2SC3326
	D4103-D4106, D4305, D4403-D4406	1SS355
	D4603-D4606	1SS355
	D4801	UDZ2.7B
	D4101, D4102, D4401, D4402	UDZS7.5B
	D4601, D4602	UDZS7.5B

CAPACITORS

	C4110, C4111, C4410, C4411	CCSRCH220J50
	C4610, C4611	CCSRCH220J50
	C4809	CEAT221M16
	C4115, C4116, C4415, C4416	CEAT221M63
	C4615, C4616	CEAT221M63
	C4109, C4409, C4609	CEAT470M16
	C4801, C4803	CEAT471M63
	C4103, C4403, C4603	CEHAT102M10
	C4108, C4408, C4608	CEHAT470M16
	C4101, C4401, C4601	CEHAZL101M10
	C4106, C4107, C4406, C4407	CEHAZL470M25
	C4606, C4607	CEHAZL470M25

Mark	No.	Description	Part No.
	C4104, C4105, C4404, C4405		CFTLA104J2A
	C4604, C4605		CFTLA104J2A
	C4112, C4113, C4412, C4413		CFTYA224J50
	C4612, C4613		CFTYA224J50
	C4102, C4402, C4602		CKSRYB221K50

RESISTORS

⚠	R4110,R4111,R4125,R4126,R4310	ACN7107
⚠	R4325,R4410,R4411,R4425,R4426	ACN7107
⚠	R4610,R4611,R4625,R4626(0.1)	ACN7107
	R4117, R4417, R4617 (10k)	ACN7117
	R4103, R4403, R4603 (330)	ACN7118
	R4104, R4404, R4604 (22)	ACN7119
	R4127,R4128,R4327,R4427,R4428	RS1/16S1001F
	R4627, R4628	RS1/16S1001F
	R4129,R4130,R4329,R4429,R4430	RS1/16S1003F
	R4629, R4630	RS1/16S1003F
	R4116,R4133,R4134,R4316,R4333	RS1/16S1004F
	R4416, R4433, R4434, R4616	RS1/16S1004F
	R4633, R4634	RS1/16S1004F
	R4112,R4113,R4312,R4412,R4413	RS1/16S1502F
	R4612, R4613	RS1/16S1502F
	R4114,R4115,R4314,R4414,R4415	RS1/16S1503F
	R4614, R4615	RS1/16S1503F
	R4131,R4132,R4331,R4431,R4432	RS1/16S3902F
	R4631, R4632	RS1/16S3902F
⚠	R4118, R4418, R4618	RS1LMF2R2J
	Other Resistors	RS1/16S###J

OTHERS

J4801 LEAD HOUSING	ADX7370
CN4812 2P CONNECTOR	B02B-XASK-1
CN4803 11P PLUG	KM250NA11L
CN4805 15P PLUG	KM250NA15L
CN4801 8P CONN.	S08B-XASK-1
4801,4803,4805 SCREW TERM.	VNE1949
4809 EARTH FITTING	VNF-091

W POWER AMP(C) ASSY

SEMICONDUCTORS

⚠	IC4301	PA9008A
	D4303, D4304	1SS355
	D4301, D4302	UDZS7.5B

CAPACITORS

	C4310, C4311	CCSRCH220J50
	C4315, C4316	CEAT221M63
	C4309	CEAT470M16
	C4303	CEHAT102M10
	C4308	CEHAT470M16
	C4301	CEHAZL101M10
	C4306, C4307	CEHAZL470M25
	C4304, C4305	CFTLA104J2A
	C4312, C4313	CFTYA224J50
	C4302	CKSRYB221K50

RESISTORS

	R4317	ACN7117
	R4303	ACN7118
	R4304	ACN7119
⚠	R4318	RS1LMF2R2J
	Other Resistors	RS1/16S###J

Mark	No.	Description	Part No.
	CN4808 13P SOCKET		KP250NA13
	CN4807 15P SOCKET		KP250NA15

X POWER AMP(R) ASSY

SEMICONDUCTORS

⚠	IC4201, IC4501, IC4701	PA9008A
⚠	IC4202, IC4502, IC4702	PBD001A
⚠	IC4203, IC4303, IC4503, IC4703	PBD002A
	Q4201, Q4501, Q4701	2SA1255
	Q4802, Q4804, Q4806	2SC2412K
	Q4202, Q4302, Q4502, Q4702	2SC3138
	Q4504, Q4704	2SC3326
	D4203-D4206,D4306,D4503-D4506	1SS355
	D4703-D4706	1SS355
	D4802	UDZ2.7B
	D4201, D4202, D4501, D4502	UDZS7.5B
	D4701, D4702	UDZS7.5B

CAPACITORS

	C4210, C4211, C4510, C4511	CCSRCH220J50
	C4710, C4711	CCSRCH220J50
	C4810	CEAT221M16
	C4215, C4216, C4515, C4516	CEAT221M63
	C4715, C4716	CEAT221M63
	C4209, C4509, C4709	CEAT470M16
	C4802, C4804	CEAT471M63
	C4203, C4503, C4703	CEHAT102M10
	C4208, C4508, C4708	CEHAT470M16
	C4201, C4501, C4701	CEHAZL101M10
	C4206, C4207, C4506, C4507	CEHAZL470M25
	C4706, C4707	CEHAZL470M25
	C4204, C4205, C4504, C4505	CFTLA104J2A
	C4704, C4705	CFTLA104J2A
	C4212, C4213, C4512, C4513	CFTYA224J50
	C4712, C4713	CFTYA224J50
	C4202, C4502, C4702	CKSRYB221K50

RESISTORS

⚠	R4210,R4211,R4225,R4226,R4311	ACN7107
⚠	R4326,R4510,R4511,R4525,R4526	ACN7107
⚠	R4710, R4711, R4725, R4726 (0.1)	ACN7107
	R4217, R4517, R4717 (10k)	ACN7117
	R4203, R4503, R4703 (330)	ACN7118
	R4204, R4504, R4704 (22)	ACN7119
	R4227,R4228,R4328,R4527,R4528	RS1/16S1001F
	R4727, R4728	RS1/16S1001F
	R4229,R4230,R4330,R4529,R4530	RS1/16S1003F
	R4729, R4730	RS1/16S1003F
	R4216,R4233,R4234,R4334,R4516	RS1/16S1004F
	R4533,R4534,R4716,R4733,R4734	RS1/16S1004F
	R4212,R4213,R4313,R4512,R4513	RS1/16S1502F
	R4712, R4713	RS1/16S1502F
	R4214,R4215,R4315,R4514,R4515	RS1/16S1503F
	R4714, R4715	RS1/16S1503F
	R4231,R4232,R4332,R4531,R4532	RS1/16S3902F
	R4731, R4732	RS1/16S3902F
⚠	R4218, R4518, R4718	RS1LMF2R2J
	Other Resistors	RS1/16S###J

OTHERS

J4802 LEAD HOUSING	ADX7371

Mark No.	Description	Part No.
	CN4813 2P CONNECTOR	B02B-XASK-1
	CN4806 13 PLUG	KM250NA13L
	CN4804 9P PLUG	KM250NA9L
	CN4802 6P CONNECTOR	S06B-XASK-1
	4802,4804,4806 SCREW TER.	VNE1949
	4810 EARTH FITTING	VNF-091

Y POWER AMP(BR) ASSY

SEMICONDUCTORS

	Q4303, Q4403	2SC2412K
	Q4103	DTA124EK
	D4806	1SS355
	D4805	UDZS5.1B

CAPACITORS

	C4812	CKSRYF105Z10

RESISTORS

	Other Resistors	RS1/16S###J

OTHERS

	J4803 BOARD IN WIRE	ADX7372
	CN4809 11P SOCKET	KP250NA11
	CN4810 9P SOCKET	KP250NA9
	CN4811 8P CONNECTOR	S08B-XASK-1

Z POWER AMP(G) ASSY

OTHERS

	J4804 BOARD IN WIRE	ADX7363
	4807,4808 EARTH FITTING	VNF-091

AA LOCAL SUPPLY ASSY

SEMICONDUCTORS

⚠	IC4047 (315mA)	AEK7003
⚠	IC4023, IC4024 (500mA)	AEK7005
⚠	IC4045, IC4046 (500mA)	AEK7005
⚠	IC4036 (1A)	AEK7009
⚠	IC4035 (1.25A)	AEK7010
⚠	IC4011	LM1085IT-5.0
⚠	IC4021, IC4031	LM2940CT-5.0
⚠	IC4041	NJM7820FA
⚠	IC4043	NJM78M15FA
⚠	IC4033	NJM78M56FA
⚠	IC4042	NJM7918FA
⚠	IC4022, IC4032	NJM79M05FA
	Q4054	2SA1037K
⚠	Q4022, Q4052	2SB951A
⚠	Q4021, Q4051	2SD1277A
	Q4053	2SK1132
	D4031, D4032, D4057	1SS355
⚠	D4003, D4004	D3SBA20(B)
	D4041	HZU2.2B
	D4034	RB501V-40

CAPACITORS

	C4003	ACE7036
	C4051, C4052	ACH7117
	C4011	ACH7159
	C4053, C4054	CEAT101M63
	C4023, C4024	CEAT471M16
	C4021, C4022, C4032	CEAT472M16
	C4041, C4042	CEAT472M35
	C4031	CEAT682M16
	C4025, C4026	CEHAZA470M16
	C4045-C4047	CEJQ100M50
	C4055, C4056	CEJQ100M63
	C4013, C4035, C4036, C4038	CEJQ101M6R3
	C4029, C4030, C4039, C4040, C4049	CEJQ470M16
	C4002	CFTLA474J2A
	C4001	CFTYA105J50
	C4057	CKSRYB102K50
	C4043, C4044, C4048	CKSRYB103K50
	C4014, C4015, C4027, C4028	CKSRYB104K16
	C4033, C4034, C4037	CKSRYB104K16
	C4061-C4064	CKSRYB473K16
⚠	D4002, D4005	S1VB20/F03
	D4059, D4060	UDZ12B
	D4051-D4054	UDZ15B
	D4055, D4056	UDZ16B

RESISTORS

⚠	R4003	RD1/2MMF470J
⚠	R4021, R4022	RD1/4MUF151J
⚠	R4001, R4002	RD1/4MUF330J
⚠	R4051, R4052	RD1/4MUF472J
	Other Resistors	RS1/16S###J

OTHERS

	J4004 6P CONNECTOR	ADX7373
	J4002 4P CONNECTOR	ADX7374
	CN4002 3P CONNECTOR	B03B-XASK-1
	CN4001 8P CONNECTOR	B08B-XASK-1
	CN4004 9P CONNECTOR	B09B-XASK-1
	CN4005 2P CONNECTOR	B2P-VH
	KN4001, KN4002 EARTH FIT.	VNF1084

AB AC PRIMARY ASSY

SEMICONDUCTORS

	IC1103	BU4094BC
⚠	IC1101	NJM78M56FA
⚠	IC1102	NJM79M24FA
	Q1102	2SB1197K
	Q1101	2SC2412K
	Q1103	DTC124EK
	D1103, D1106, D1109	1SS355
⚠	D1101	S1VB20/F03
	D1102	UDZS5.1B
	IC351	M56788AFP
⚠	IC303 (1.8V)	PQ018EZ01ZP
	IC601	STI5519AVB-B0C
	IC605	TC7WU04FU
	IC603	VYW1948

COILS AND FILTERS

	L1101, L1102 (NOISE FILTER)	RTF1167

TRANSFORMERS

⚠	T1101	ATT7043

CAPACITORS

	C1107	CCSRCH101J50
	C1109	CEAT100M50
	C1103, C1104	CEAT101M10
	C1102	CEAT222M25
	C1110	CEAT470M25

Mark	No.	Description	Part No.
	C1101		CFTYA104J50
	C1106		CKSRYB104K16
	C1105		CKSRYB473K16
	RESISTORS		
	Other Resistors		RS1/16S###J
	OTHERS		
	CN1105	3P JUMPER CON.	52151-0310
⚠	CN1101	6P SOCKET	AKP7141
	CN1104	14P FFC CON.	HLEM14R-1
	CN1102	7P SOCKET	KP250NA7
	CN1103	8P SOCKET	KP250NA8
	KN1101	EARTH FITT.	VNF1084

AC POWER SW ASSY

Mark	No.	Description	Part No.
	SWITCHES AND RELAYS		
⚠	S1301		ASG7024
	CAPACITORS		
	C1301, C1302		CFTLA103J50
	OTHERS		
	CN1301	3P JUMPER CON.	52147-0310

AD SP(A) ASSY

Mark	No.	Description	Part No.
	SEMICONDUCTORS		
	Q1201,Q1203,Q1205,Q1207,Q1209		DTA124EK
	Q1202,Q1204,Q1206,Q1208,Q1210		DTC124EK
	D1201-D1210		1SS355
	SWITCHES AND RELAYS		
	RY1201-RY1205		ASR7001
	CAPACITORS		
	C1201-C1207		CQHA102J2A
	RESISTORS		
⚠	R1231-R1237		RD1/4MUF100J
⚠	R1211, R1212		RS2LMF331J
	Other Resistors		RS1/16S###J
	OTHERS		
	J1201	BOARD IN WIRE	ADX7362
	J1206	3P CONN.	ADX7364
	J1207, J1208	1P WIRE	ADX7368
⚠	CN1202	8P SP TERMINAL	AKE7087
⚠	CN1201	6P SP TERMINAL	AKE7088
	L1201-L1207	AF COIL	ATH1053
	CN1206	4P FFC CONN.	HLEM4S-1
	CN1205	8P PLUG	KM250NA8L

AE FL SUPPLY ASSY

Mark	No.	Description	Part No.
	SEMICONDUCTORS		
⚠	Q1901		2SC5174P
	D1901, D1902		UDZ22B
	CAPACITORS		
	C1901-C1903		CEJQ100M50
	RESISTORS		
⚠	R1901		RD1/4MUF272J
	Other Resistors		RS1/16S###J
	OTHERS		
	CN1902	4P JUMPER CONN.	52147-0410
	CN1901	4P CONN.	B04B-XASK-1

AF STANDBY ASSY

Mark	No.	Description	Part No.
	SWITCHES AND RELAYS		
	S1901		ASG7013
	OTHERS		
	CN1903	3P FFC CONN.	52044-0345

AG POSISTER(L) ASSY

Mark	No.	Description	Part No.
	OTHERS		
	J1901	2P CONNECTOR ASSY	ADX7365
⚠	TH1901	POSISTOR	AEX7006

AH POSISTER(R) ASSY

Mark	No.	Description	Part No.
	OTHERS		
	J1902	2P CONNECTOR ASSY	ADX7365
⚠	TH1902	POSISTOR	AEX7006

AI DSP DIODE ASSY

Mark	No.	Description	Part No.
	SEMICONDUCTORS		
⚠	D1903		D5SBA20(B)
	OTHERS		
	CN1904	4P CONNECTOR	S04B-XASK-1

AJ SP(B) ASSY

Mark	No.	Description	Part No.
	SEMICONDUCTORS		
	Q1004		DTA124EK
	Q1002, Q1003		DTC124EK
	Q1001		DTC143EK
	D1001-D1006		1SS355
	COILS AND FILTERS		
⚠	L1001	(LINE FILTER)	ATF7018
	SWITCHES AND RELAYS		
	RY1003		ASR7001
⚠	RY1002		ASR7016
⚠	RY1001		ASR7022
	CAPACITORS		
⚠	C1001, C1002	(0.01uF/AC250V)	ACG7033
	C1003, C1004		CQHA102J2A
	RESISTORS		
⚠	R1002	(15 10W)	ACN7116
⚠	R1003	(2.2 1/2W)	RCN1080
	Other Resistors		RS1/16S###J
	OTHERS		
⚠	CN1006	4P SP TERMINAL	AKE7089
⚠	CN1001	6P PLUG	AKM7056
⚠	1004	1P AC OUTLET	AKP1033
	H1001,H1002	FUSE HOL.	AKR1007
	CN1005	7P PLUG	KM250NA7L
⚠	CN1002	AC CORD SOCKET	RKP1751

Mark	No.	Description	Part No.
⚠	CN1003	AMP U-P CONN.	RKP1834
	1001	SCREW TER.	VNE1948

AK DIODE ASSY

SEMICONDUCTORS

⚠	D1501		KCH30A15
⚠	D1502		KRH30A15

CAPACITORS

	C1501	(1uF/250V)	ACE7036

RESISTORS

⚠	R1501		RD1/2MMF470J

OTHERS

	J1501	BOARD IN WIRE	ADX7358
	J1502	BOARD IN WIRE	ADX7359
	J1503	BOARD IN WIRE	ADX7360
	J1504	BOARD IN WIRE	ADX7361

AL FUSE ASSY

OTHERS

	H1801-H1810	FUSE CLIP	AKR1004
	CN1803	4P CONNECTOR	B04B-XASK-1
	CN1802	8P CONNECTOR	B08B-XASK-1
	CN1801	12P CONNECTOR	S12B-XASK-1

AM TRANS(A) ASSY

CAPACITORS

	C1601		CFTYA105J50

RESISTORS

⚠	R1601		RD1/4MUF100J

OTHERS

	CN1601	5P CONNECTOR	B05B-XASK-1

AN TRANS(B) ASSY

SEMICONDUCTORS

⚠	D1701		S1VB20/F03
	D1702		UDZS7.5B

CAPACITORS

	C1701		CEAT331M50
	C1702		CEJQ101M10

RESISTORS

⚠	R1703-R1706		RS1/16S2R2J

OTHERS

⚠	IC1703	PROTECTOR(750mA)	AEK7007
	H1701-H1704	FUSE CLIP	AKR1004
	CN1701	3P CONNECTOR	B03B-XASK-1
	CN1702	7P CONNECTOR	B07B-XASK-1

AO 1394 MODULE ASSY

SEMICONDUCTORS

	IC203		BU2370FV
	IC402		CY22381FC-PA
	IC302		K4S641632F-TC75
⚠	IC2		MM1562FF
⚠	IC1		NJM2391DL1-33
	IC204		NJU7093AF

Mark	No.	Description	Part No.
	IC101		PD5787A
	IC306		PE9014A
	IC103		PST9245
	IC401		SM5816AF
	IC304, IC405		TC74VHC257FT
	IC104		TC74VHCT125AFT
	IC205		TC7SH08FU
	IC403		TC7SZ126FU
	IC404		TC7WH02FU
	IC201		TSB43CA43GGW
	IC301		XC2S50-5TQ144C
	Q103		DTA124EUA
	Q401		DTA143EUA
	D103		RB501V-40

COILS AND FILTERS

	X301	(33.86MHz)	ASS7049
	X302	(36.86MHz)	ASS7050
	L1, L101, L2, L201-L203	(CHIP	ATL7002
	L301, L302, L401, L402	INDUCTOR)	ATL7002
	X201	(24.58MHz)	VSS1151
	X101	(CERAMIC RES.)	VSS1179
	L291-L294	(COIL)	VTH1043

CAPACITORS

	C275	(2.2uF/6.3V)	ACG7045
	C204, C205		CCSRCH120J50
	C285, C286		CCSRCH221J50
	C13		CCSRCH471J50
	C1, C307, C421, C9		CEV101M16
	C202, C212, C261, C277, C306		CEVL101M6R3
	C324, C413		CEVL101M6R3
	C208, C222, C223, C263, C270		CKSRYB102K50
	C322, C325, C326		CKSRYB102K50
	C102, C112, C330		CKSRYB103K50
	C101, C103, C104, C110, C113		CKSRYB104K16
	C2, C201, C203, C206, C207		CKSRYB104K16
	C209-C211, C213-C221		CKSRYB104K16
	C224-C227, C262, C264		CKSRYB104K16
	C271-C274, C276, C287, C288		CKSRYB104K16
	C3, C301-C305, C308-C320		CKSRYB104K16
	C329, C331, C332, C404-C410		CKSRYB104K16
	C415, C418-C420, C424		CKSRYB104K16
	C10, C11, C14, C15, C278		CKSRYB105K6R3
	C282, C283		CKSRYB105K6R3
	C414, C422		CKSRYB471K50
	C279		CKSRYB472K50

RESISTORS

	R110, R116–R119, R220-R223		RAB4C101J
	R227, R228, R249		RAB4C101J
	R115		RAB4C103J
	R410		RAB4C221J
	R309, R310, R319-R326		RAB4C470J
	R101-R104, R203, R209, R212		RAB4C472J
	R219, R229, R230, R238, R248		RAB4C472J
	R256, R358-R361		RAB4C472J
	R316, R405		RAB4C680J
	R294, R295		RS1/16S5101F
	R283-R286, R289–R292		RS1/16S56R0D
	R206		RS1/16S6341D
	Other Resistors		RS1/16S###J

Mark	No.	Description	Part No.

OTHERS

	CN101	7P FFC CONNECTOR	RKN1048
	CN401	22P FFC CONNECTOR	VKN1426
	JA1, JA2	1394 TERMINAL	VKN1800

6. ADJUSTMENT

There is no information to be shown in this chapter.

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 Teat mode

• How to Enter the Test Mode

With the attached Remote Control Unit.

1. Press the [REMOTE SETUP]+[PRESET RECALL] keys simultaneously to enterthe "SECRET" mode.

2. Press the [△]+[▽]+[VCR2] keys simultaneously to enter the Test Mode.
   LCD displays the "SECRET [VCR2]".

1. Test Mode ON (Press [C] key)

- Set the function to CD.
- Set the signal selection to AUTO.
- Set the tuner-preset data.
- Set speaker A to ON and speaker B to OFF.
- Set the BASS and TREBLE to +6.
- Set the remaining items to their factory settings.

Display: TEST MODE

2. Test Mode OFF (Press [0] key)

When you quit Test mode, the unit automatically enters STANDBY status.

Note: Do NOT quit Test mode by disconnecting the power cord. Doing so prevents factory-set data from being written to EEPROM to backup the data.

3. Items to be checked in Test mode

For checking the main unit of a product: Remote control codes A55F+A500 ([1] key) through A55F+ A509 ([0] key).

1. FL display check (Press [1] key)

Normal display → All FLs and LEDs on → All FLs and LEDs off → Normal display→ . . .

Display transition:
TEST MODE → FL ALL ON → FL ALL OFF → TEST MODE

2. Bass and treble operations (Press [4] key)

Each time this code is issued, the bass and treble values change.
In modes (THX, Direct, Multichannel-Direct) in which tone control is invalid, the display also changes as shown below.
To use, select a mode (Standard, etc.) in which tone control is valid.

Display transition:
TRE/BASS 0dB → TRE/BASS MAX → TRE/BASS 0dB

Remarks:
In Test mode, the bass and treble keys on the main unit functions as follows:
+ : 0 dB → +6 dB → 0 dB → +6 dB, . . .
– : 0 dB → – 6 dB → 0 dB → – 6 dB, . . .

3. Master volume switching (Press [5] key)

When this code is issued, the master volume changes.
Trimming of all channels becomes 0 dB at this time.

Display transition:
TEST VOL MIN → TEST VOL MAX → TEST VOL MIN

4. Tuner 9K/10K switching (Press [6] key)

When this code is issued, the reception frequency interval of the tuner cyclically changes.
The code is valid only with models (SD models) having 9K/10K switching capability.

Display transition:
TEST TUN 9K → TEST TUN 10K → TEST TUN 9K

5. FAN ON/OFF (Press [8] key)

When this code is issued, the fan turns on or off.
The code is valid only with models having a fan.

Display transition: FAN OFF → FAN ON

OFF : Fan stops.
ON : Fan operates.

6. Microphone input check (Press [9] key)

When this code is issued, Direct mode is selected (a path that bypasses DSP), and a microphone input signal will be output from the pre-output on the front panel.
- Set the function to CD.
- Set the signal selection to AUTO.

Display transition: TEST MIC CHECK

7. RS232C operation check (Press [2] key)

When this code is issued, the RS-232C transmission port is switched to act as a general-purpose port, and self-check of data input/output ports is performed.
The signal ("L" output) at the data output port is read to the data-input port and checked as to whether it is correct or not. "H" is output from the CTS port.

If the port self-check successfully ends:

Display: MAIN RS232C OK

If the port self-check fails:

Display: MAIN RS232C NG

8. Tuner: Auto scan (Press [3] key)

When this code is issued, an auto scan operation begins.
The step of frequency increment is forcibly set to 9K.
If the function is not Tuner, it is switched to Tuner, then auto scanning starts from 88.5 MHz FM in the + direction.
When the code is issued again, auto scan starts from 1062 kHz AM in the – direction.

The reception points on the line:
AM : 1008 kHz
FM : 89 MHz
* If this code is issued during auto scanning, it merely causes the operation to stop. Issue the code again to resume auto scanning.

9. Video converter operation check (Press [7] key)

When this code is issued, All-through mode will be selected.
The video converter operation is deactivated.
The following assignment will be made for component connectors 1 to 3 and D4 connectors 1 and 2.
Component 1 : DVD/LD
Component 2 : TV
Component 3 : VCR2
D4-1 : SAT
D4-2 : VCR1/DVR

For checkers: Remote control codes other than A55F+A500 ([1] key) through A509 ([0] key).

7.1.2 Protection Circuit Control Specifications

(1) Fan control

Valid with European and other general-area models only.

1 Fan on/off

If the temperature at the heat sink rises, the TEMP1 port becomes "H." Detecting "H," the microcomputer starts the fan. No indication is made on the FL display.

2 Fan detection

If the fan is forcibly stopped, the FAN_DET port becomes "H." Detecting "H," the microcomputer performs the following operations:
1. System muting on
2. Protection relays off

The warning indication "FAN STOP" appears (flashing) on the FL display.

If this status continues for more than 3 seconds, the power is turned off (for Standby mode).
If the port becomes "L" within 3 seconds, the unit resets automatically.

(2) Transformer temperature rise control

Valid with European and Japanese domestic models only.

European models

If the temperature at the transformer rises, the TRANS_DET port becomes "H."
Detecting "H," the microcomputer performs the following operations:
1. System muting on
2. Protection relays off

As long as the detection port remains "H," statuses 1 and 2 are maintained.
When the port becomes "L" (when the temperature at the transformer drops), statuses 1 and 2 are canceled, and the unit resets automatically (automatic reset is requested by safety regulations).

The warning indication "OVER HEAT" appears on the FL display.

(3) Temperature detection

Valid with North American and Japanese domestic models only.
The process mentioned in (1) is performed with European and other general-area models.

If the temperature at the heat sink rises, the TEMP1 port becomes "H." Detecting "H," the microcomputer performs the following operations:
1. System muting on
2. Protection relays off

The warning indication "OVER HEAT" appears on the FL display.
If this status continues for more than 3 seconds, the power is turned off (for Standby mode).
If the port becomes "L" within 3 seconds, the unit resets automatically.

(4) Overload detection (abnormality detection)

If the speaker terminals are short-circuited or low-load driving is detected, the OL_DET port becomes "H."
Detecting "H" in an interrupt process, the microcomputer performs the following operations:
1. System muting on
2. All relays off (expander output off)
   The expander output is turned off to perform detection during the interrupt. As the AC relay is also turned off, no warning indication appears on the FL display.
3. Power off (Standby mode)

(5) DC detection (defect detection)

Only DC detection is enabled 2 seconds after power-on.
If there is a fault in the power amplifier or a high-level signal lower than5 Hz is input, the DC_DET port becomes "H."
Detecting "H," the microcomputer performs the following operations:
1. System muting on
2. Protection relays off

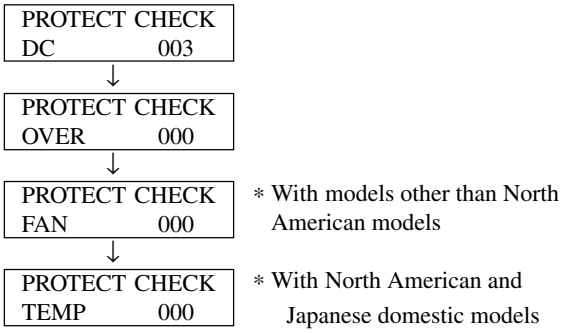
The warning indication "AMP ERR" appears on the FL display.
If this status continues for more than 3 seconds, the power is turned off (for Standby mode).
If the port becomes "L" within 3 seconds, the unit resets automatically.

When the power is turned off owing to DC detection (also when a user prompted by the warning indication turns off the switch on the primary side), key inputs are disabled for 60 seconds.
The microcomputer backs up the value of the 60-second timer. The unit will only enter Standby mode, and power will not be turned on within 60 seconds in response to a key input after power-off on the primary side. (When the switch on the primary side is turned on again, key inputs will be limited for 60 seconds even if the timer value is less than 60 seconds.)
After DC detection, power-on from the multiroom side is also disabled for 60 seconds.
If the unit resets within 3 seconds (before the power is turned off) after DC detection, the normal operation is restored.

(6) Diagnostic mode

This mode is only for servicing and checking the circuit design, and not open to users.
When the DNR key and VSEL key are both held pressed for 3 seconds in Standby mode, the power is turned on, and the number of times of each defect or abnormality detection is sequentially displayed on the FL display.
Displayed items:
- DC detection
- Overload detection
- Fan detection
- Temperature detection

Hold the DNR key and VSEL key pressed for 3 seconds in Standby mode.



There is no specific mode for clearing the above-mentioned diagnostic mode.
Diagnostic mode is only cleared with an all-reset operation.

● Protection process list

Item	Purpose	Detection Method	Process	Warning Indication	Remarks	North America	Japan	Europe	General Areas
DC detection	To detect amplifier damage (defect status) A process to protect speakers (for protection of connected external devices)	Detects when the DC_DET port becomes "H."	Turns muting on and protection relays off, then turns off the power after 3 seconds.	Flashing "AMP ERR" for 3 seconds	Once detected, key inputs are disabled for 60 seconds. If the DC_DET port becomes "L" within 3 seconds, the unit resets automatically.	O	O	O	O
AMP overload	To detect overloading (abnormal status) With low-load driving or a short circuit of the speaker terminals (for protection of the amplifier)	Detects when the AMP_OL port becomes "H" (checks by interrupt).	Turns muting on and all relays off, and immediately turns off the power.	None		O	O	O	O
Power AMP Fan control	Protection function against a temperature rise at the heat sink	Detects when the TEMP1 port becomes "H" (checks by interrupt).	Rotates the fan.	None	The fan stops when the TEMP1 port becomes "L." It is stop after 10 seconds.	X	X	O	O
Fan stop (models with a fan models only)	To know that the rotating fan is forcibly stopped	Detects when the FAN_DET port becomes "H."	Turns muting on and protection relays off, then turns off the power after 3 seconds.	Flashing "FAN STOP" for 3 seconds	If the FAN_DET port becomes "L" within 3 seconds, the unit resets automatically.	X	O	O	O
Transformer temperature detection	Protection function against a temperature rise at the transformer	Detects when the TRANS_DET port becomes "L."	Rotates the fan.	None	The fan stops when the TRANS_DET port becomes "L."	X	O	X	X
Temperature detection (1)	Protect function against a temperature rise at the heat sink	Detects when the TEMP1 port becomes "H."	Turns muting on and protection relays off, then turns off the power after 3 seconds.	Flashing "OVER HEAT" for 3 seconds	If the TEMP1 port becomes "L" with in 3 seconds, the unit resets automatically.	O	O	X	X
Power AMP temperature detection (2)	The self-return type by temperture rise of a heat sink	Detects when the TRANS_DET port becomes "H"	Turns muting on and speaker relays off.	Flashing and "OVER HEAT"	If the TRANS_DET port becomes "L " with in 5 seconds, the unit resets automatically.	X	X	O	O

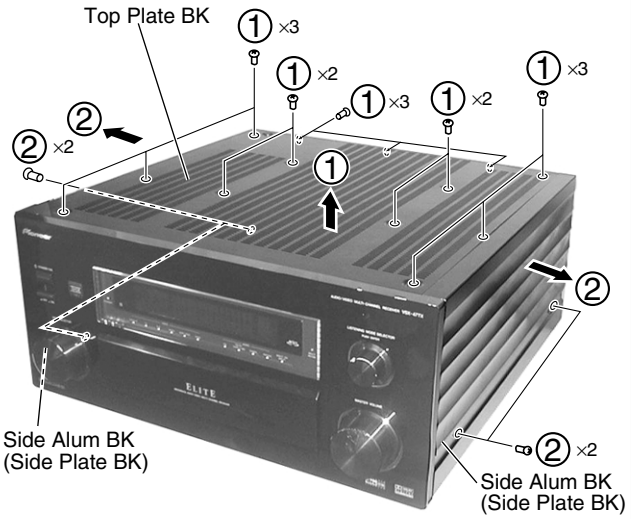
Note: Reset and key input are enabled after DC detection, as the DC detection circuit is designed to detect DC as well as low frequencies (lower than 5 Hz) and the warning may be caused by something other than a defect.

7.1.2 Disassembly

1 Exterior Block

① Remove the Top Plate BK (Screws × 13)

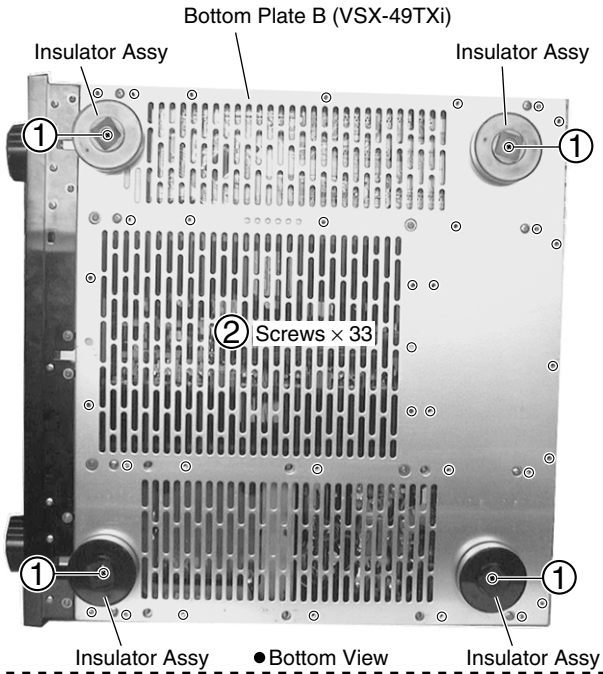
② Remove the Side Alum BK (Screws × 4)(for VSX-49TXi)



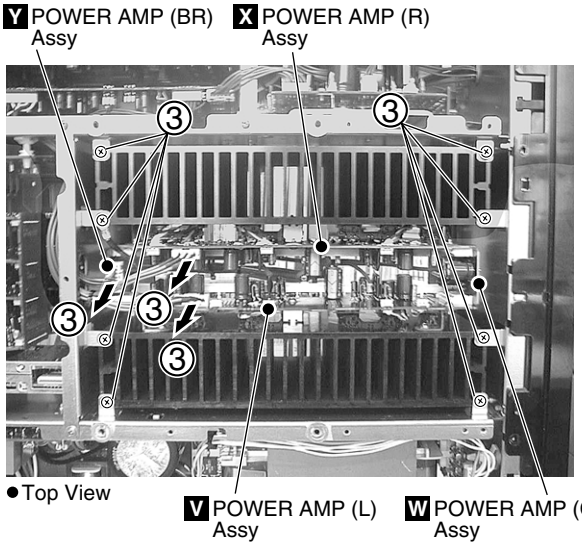
2 Heat Sink Block

① Remove the Insulator Assy (Screws × 4)

② Remove the Bottom Plate A and Bottom Plate B (Screws × 33)

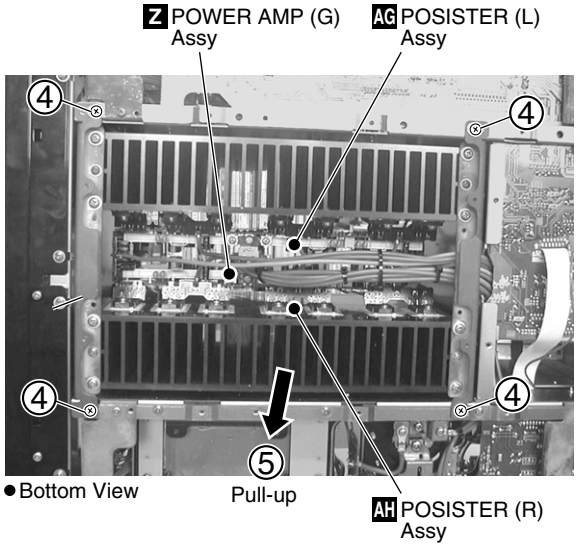


③ Remove eight screws and three connectors



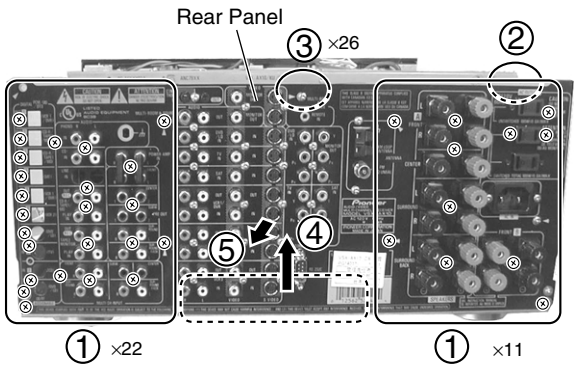
④ Remove four screws

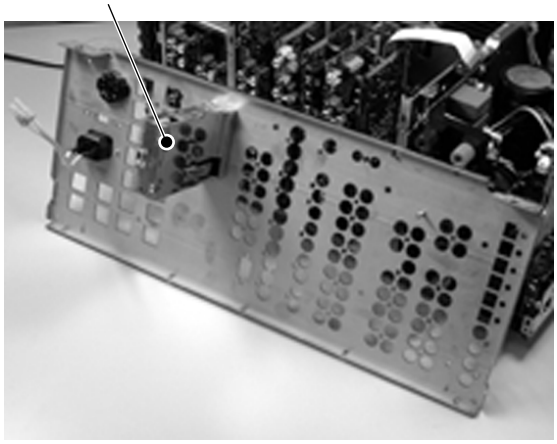
⑤ Remove the Heat Sink Block



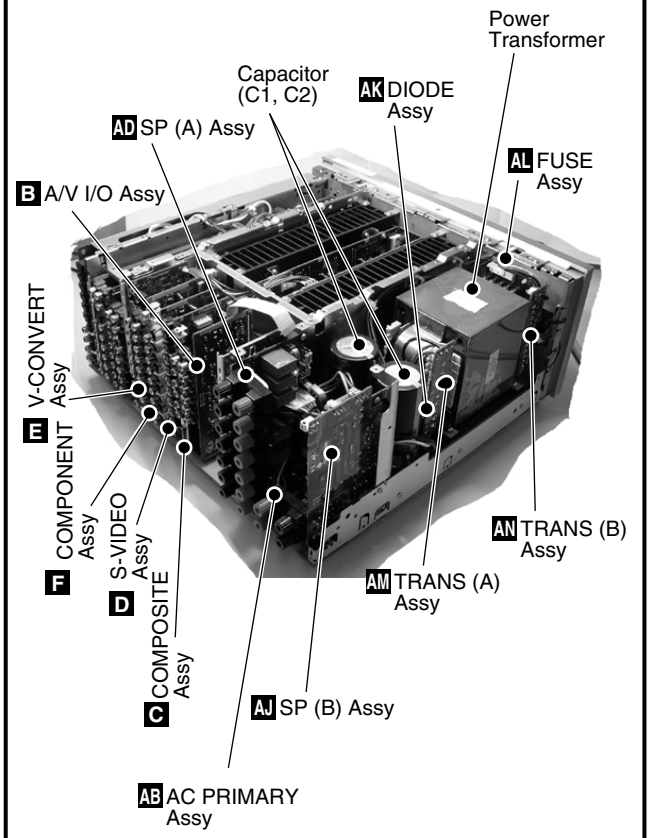
3 Rear Panel Block

① Remove screws (× 33)
② Remove the connector from SP (B) Assy
③ Remove screws (× 26)
④ Remove six connectors from MOTHER Assy
⑤ Remove the Rear Panel Block





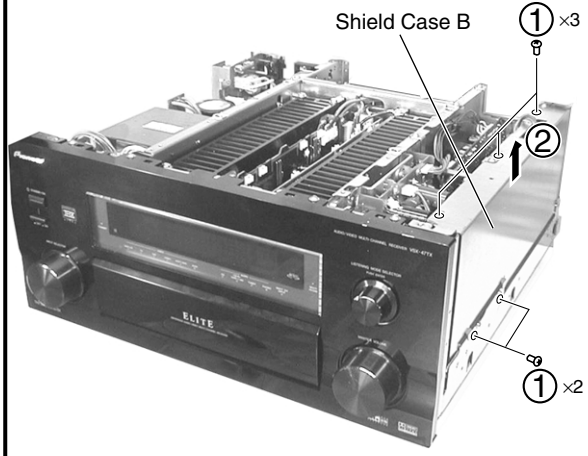
4 Power Supply Block



5 DSP and DAC Block

① Remove five screws

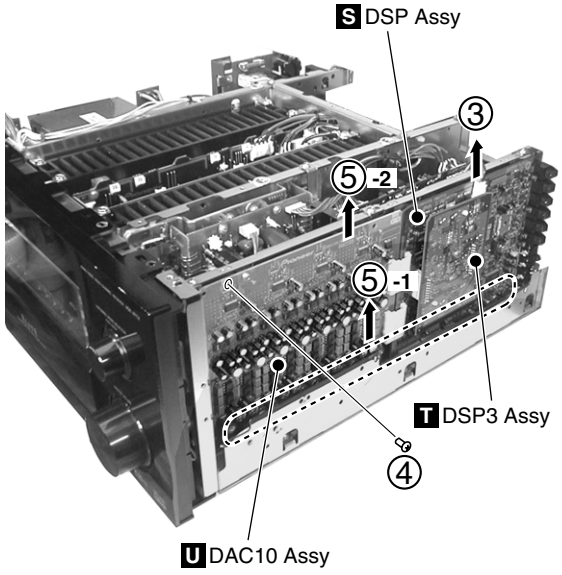
② Remove the Shield Case B



③ Remove the connector

④ Remove the screw

⑤ Remove DAC10 Assy and DSP Assy (Connectors × 5)

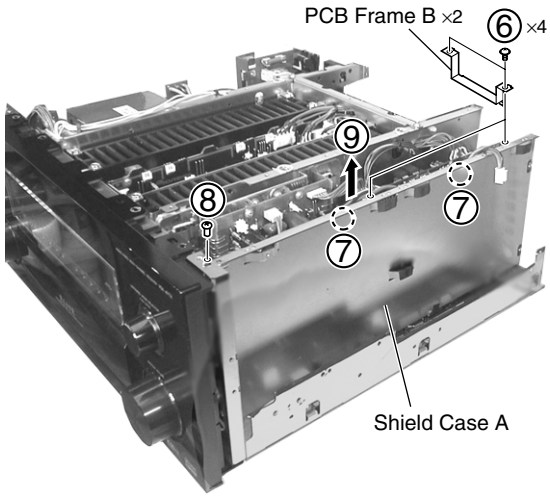


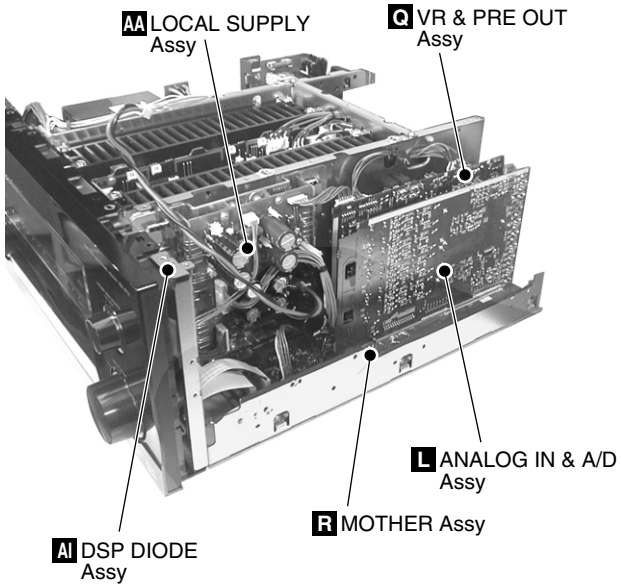
⑥ Remove two PCB Frame B (Screws × 4)

⑦ Remove two Wire Clip

⑧ Remove the screw

⑨ Remove the Shield Case A

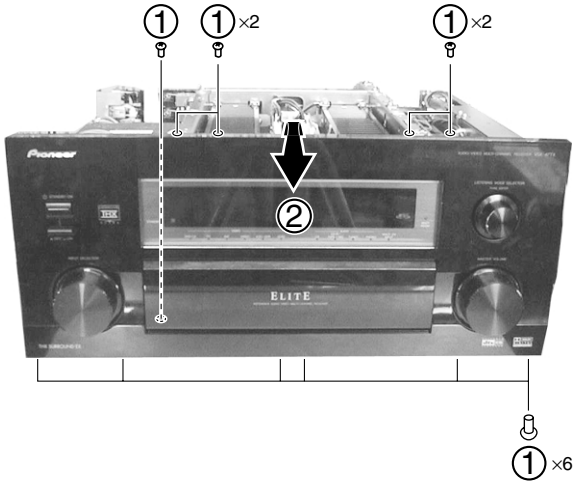


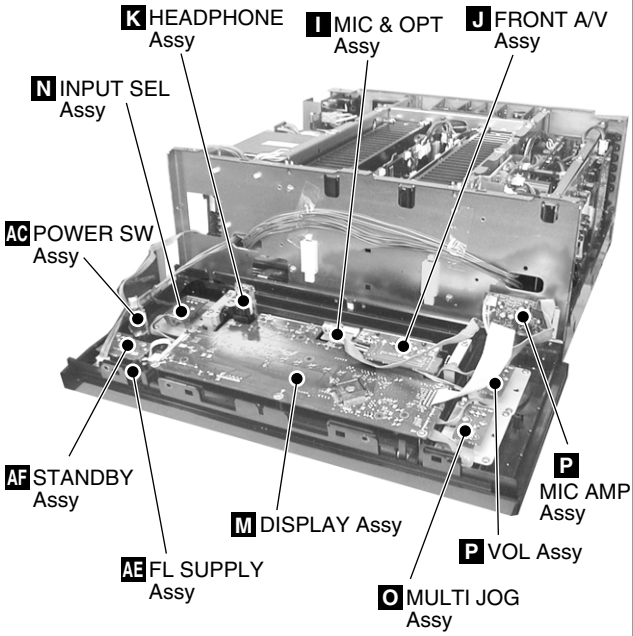


6 Front Panel Block

① Remove screws (× 11)

② Remove the Front Panel Block





7.2 PARTS
7.2.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

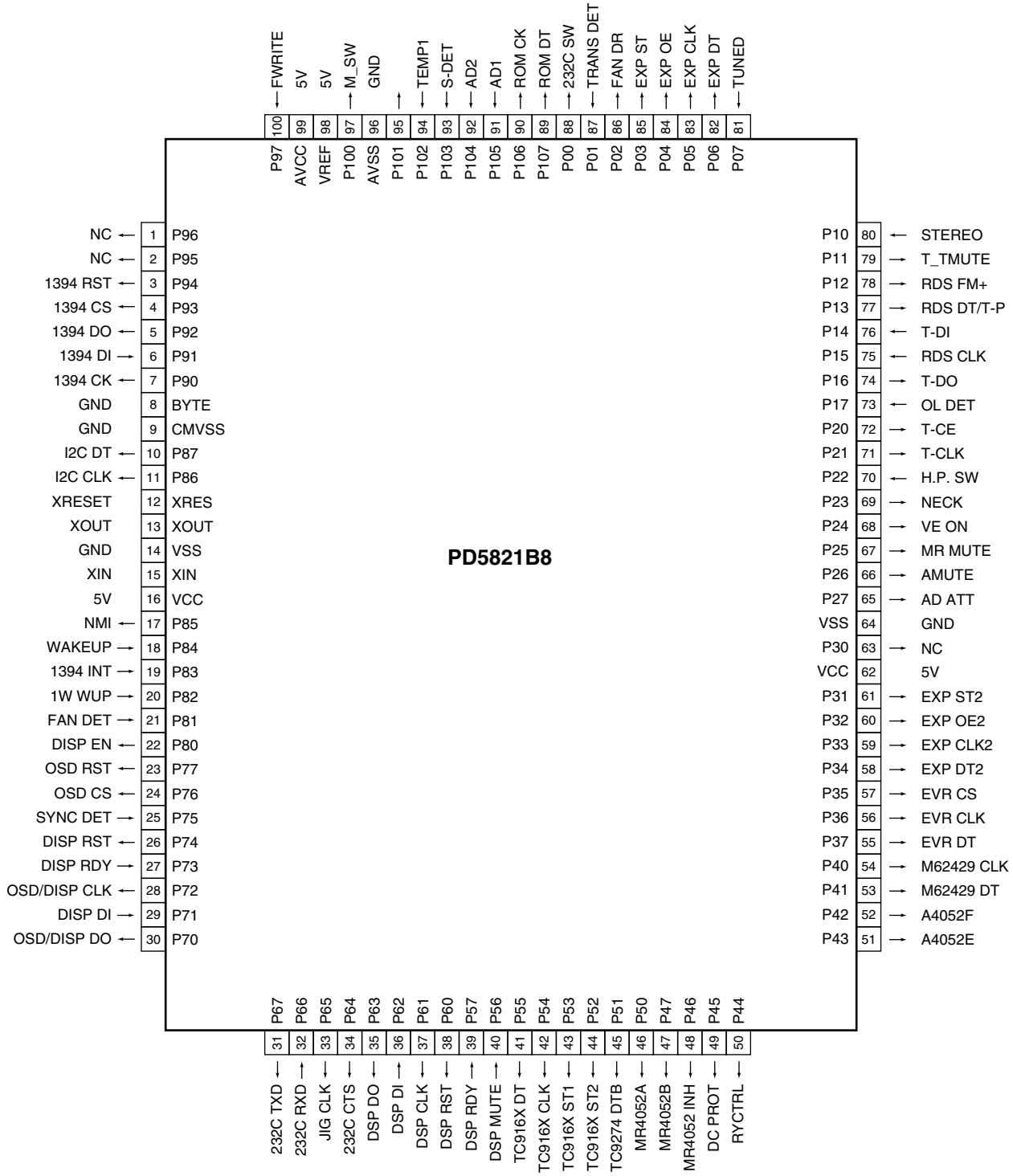
● List of IC

PD5821B8, PD5686B, M30620SAFP, BU4094BCFV

■ PD5821B8 (MOTHER ASSY : IC5801)

• Main Microcomputer

● Pin Assignment (Top view)


PD5821B8
1 NC ← P96
2 NC ← P95
3 1394 RST ← P94
4 1394 CS ← P93
5 1394 DO ← P92
6 1394 DI → P91
7 1394 CK ← P90
8 GND BYTE
9 GND CMVSS
10 I2C DT ← P87
11 I2C CLK ← P86
12 XRESET XRES
13 XOUT XOUT
14 GND VSS
15 XIN XIN
16 5V VCC
17 NMI ← P85
18 WAKEUP → P84
19 1394 INT → P83
20 1W WUP → P82
21 FAN DET → P81
22 DISP EN ← P80
23 OSD RST ← P77
24 OSD CS ← P76
25 SYNC DET → P75
26 DISP RST ← P74
27 DISP RDY → P73
28 OSD/DISP CLK ← P72
29 DISP DI → P71
30 OSD/DISP DO ← P70
31 P67 232C TXD ←
32 P66 232C RXD →
33 P65 JIG CLK ←
34 P64 232C CTS ←
35 P63 DSP DO ←
36 P62 DSP DI →
37 P61 DSP CLK ←
38 P60 DSP RST ←
39 P57 DSP RDY →
40 P56 DSP MUTE →
41 P55 TC916X DT ←
42 P54 TC916X CLK ←
43 P53 TC916X ST1 ←
44 P52 TC916X ST2 ←
45 P51 TC9274 DTB ←
46 P50 MR4052A ←
47 P47 MR4052B ←
48 P46 MR4052 INH ←
49 P45 DC PROT ←
50 P44 RYCTRL ←
51 P43 → A4052E
52 P42 → A4052F
53 P41 → M62429 DT
54 P40 → M62429 CLK
55 P37 → EVR DT
56 P36 → EVR CLK
57 P35 → EVR CS
58 P34 → EXP DT2
59 P33 → EXP CLK2
60 P32 → EXP OE2
61 P31 → EXP ST2
62 VCC 5V
63 P30 → NC
64 VSS GND
65 P27 → AD ATT
66 P26 → AMUTE
67 P25 → MR MUTE
68 P24 → VE ON
69 P23 → NECK
70 P22 ← H.P. SW
71 P21 → T-CLK
72 P20 → T-CE
73 P17 ← OL DET
74 P16 → T-DO
75 P15 ← RDS CLK
76 P14 ← T-DI
77 P13 → RDS DT/T-P
78 P12 → RDS FM+
79 P11 → T_TMUTE
80 P10 ← STEREO
81 P07 ← TUNED
82 P06 → EXP DT
83 P05 → EXP CLK
84 P04 → EXP OE
85 P03 → EXP ST
86 P02 → FAN DR
87 P01 ← TRANS DET
88 P00 → 232C SW
89 P107 → ROM DT
90 P106 → ROM CK
91 P105 ← AD1
92 P104 ← AD2
93 P103 ← S-DET
94 P102 ← TEMP1
95 P101 →
96 AVSS GND
97 P100 → M_SW
98 VREF 5V
99 AVCC 5V
100 P97 ← FWRITE

• **Pin Function**

No.	Pin Name	I/O	Pin Function	Active
1	–	O	NC "L" fixed.	
2	–	O	NC "L" fixed.	
3	1394 RST	O	Standby for 1394 (Not used) "L" fixed.	
4	1394 CS	O	Standby for 1394 (Not used) "L" fixed.	
5	1394 DO	O	Standby for 1394 (Not used) "L" fixed.	
6	1394 DI	I	Standby for 1394 (Not used) Standby with the circuit.	
7	1394 CK	O	Standby for 1394 (Not used) "L" fixed.	
8	GND	–	Ground	
9	GND	–	Ground	
10	I2C DT	I/O	Data signal for video converter IC control I2C bus system	
11	I2C CLK	O	Clock signal for video converter IC control I2C bus system	
12	XRESET	–	Reset	
13	XOUT	–	Oscillator	
14	GND	–	Ground	
15	XIN	–	Oscillator	
16	5V	–	5V power supply	
17	NMI	I	Cannot use it as usual input port (100kΩ pullup)	
18	WAKEUP	I	Wakeup	H
19	1394 INT	I	Standby for 1394 (Not used) Standby with the circuit.	
20	1W WUP	I	Wakeup signal at standby (from the display microcomputer) (pulldown)	H
21	FAN DET	I	Fix to "L" with the hardware.	
22	DISP EN	O	Communication enabling signal to the display microcomputer	H
23	OSD RST	O	OSD-IC reset signal L: reset, H: release reset	
24	OSD CS	O	OSD-IC chip select signal	H
25	SYNC DET	I	Internal/external sync detection (Switch the internal/external sync of OSD-IC.)	L: EXT
26	DISP RST	O	Display microcomputer reset signal L: reset, H: release reset (pulldown)	
27	DISP RDY	I	Communication enabling signal from the display microcomputer	H
28	OSD/DISP CLK	O	Communication clock signal with the OSD-IC/display microcomputer	
29	DISP DI	I	Communication data in signal with the display microcomputer (N ch open drain: pullup)	
30	OSD/DISP DO	O	Communication data out signal with the OSD-IC/display microcomputer (N ch open drain: pullup)	
31	232C TXD	O	For 232C rewriting (data output)	
32	232C RXD	I	For 232C rewriting (data input)	
33	CLK	O	Not used	
34	232C CTS	O	For 232C rewriting (communication enabling)	
35	DSP DO	O	Communication data out signal with the DSP microcomputer	
36	DSP DI	I	Communication data in signal with the DSP microcomputer	
37	DSP CLK	O	Communication clock signal with the DSP microcomputer	
38	DSP RST	O	DSP microcomputer reset signal L: reset, H: release reset	
39	DSP RDY	I	Communication enabling signal from the DSP microcomputer	H
40	DSP MUTE	I	Mute request signal from the DSP microcomputer H: Mute request	H
41	TC916X DT	O	Function SW control data	
42	TC916X CLK	O	Function SW control clock	
43	TC916X ST1	O	Main audio switching control strobe of TC9162 and TC9163. Multi audio switching control strobe of TC9164	
44	TC9163 STX	O	Multi/2ch signal switch	
45	TC9274 STB	O	DIRECT/DSP switching control strobe	
46	MR4052A	O	Switching control signal 1 of multi room audio system	
47	MR4052B	O	Switching control signal 2 of multi room audio system	
48	MR4052INH	O	Switching control signal 3 of multi room audio system H: output OFF	
49	DC PROT	I	DC detection H: detection	H
50	RYCTRL	O	SP relay ON/OFF	H

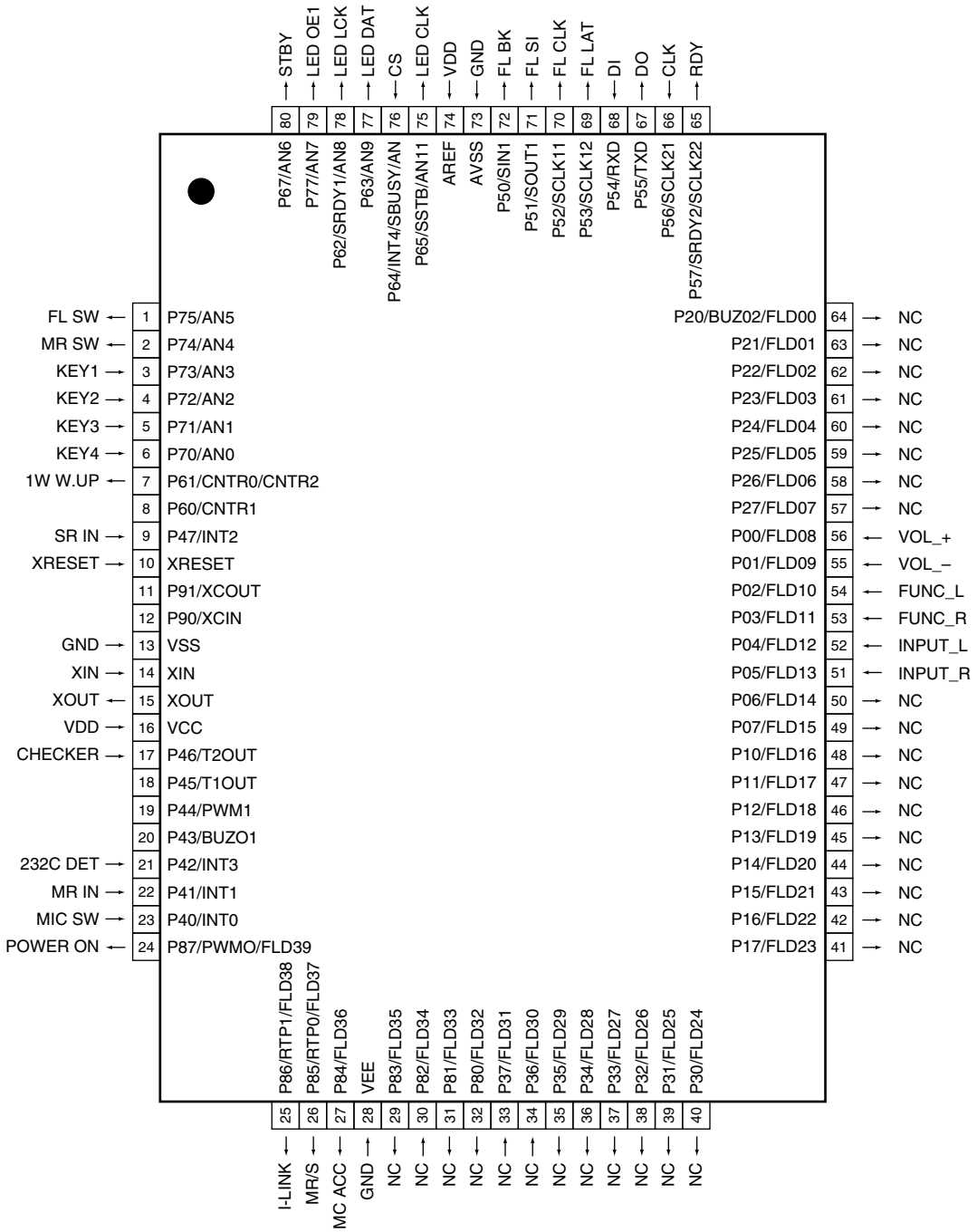
• Pin Function

No.	Pin Name	I/O	Pin Function	Active
51	A4052E	O	Output switching control signal 1 of surround back ch	
52	A4052F	O	Output switching control signal 2 of surround back ch	
53	M62429 DT	O	Data signal for multi room volume IC control	
54	M62429 CLK	O	Clock signal for multi room volume IC control	
55	EVR DT	O	Data signal for erectronic volume	
56	EVR CLK	O	Clock signal for erectronic volume	
57	EVR CS	O	Chip select signal for erectronic volume	
58	EXP DT2	O	Data signal for expansion IC control	
59	EXP CLK2	O	Clock signal for expansion IC control	
60	EXP OE2	O	Output enable signal for expansion IC control	
61	EXP ST2	O	Chip clock signal for expansion IC control	
62	5V	–	5V power supply	
63	NC	O	NC "L" fixed.	
64	GND	–	Ground	
65	AD ATT	O	Atteneuator	H
66	AMUTE	O	System mute L: Mute ON	L
67	MRMUTE	O	Multi room mute L: Mute ON	L
68	VE ON	O	Video system power supply switch At Power ON of video system: L	L
69	NECK	O	4/6Ω switch 4Ω: H , 6Ω: L , Initial value: 6Ω	
70	H.P. SW	I	Headphone detection H: Detection	H
71	TUNER CLK	O	Clock signal of tuner control	
72	TUNER CE	O	Chip select signal of tuner control	
73	OL DET	I	Amp. overload detection H: Detection	H
74	TUNER DO	O	Data output signal of tuner control	
75	RDS CLK	O	"L" fixed	
76	TUNER DI	I	Data input signal of tuner control (pullup)	
77	T-POWER	O	Power ON/OFF of tuner module	H
78	NC	O	NC	
79	T-TMUTE	O	Tuner mute	H
80	STEREO	I	L: STEREO (pullup)	L
81	TUNED	I	L: TUNED (pullup)	L
82	EXP DT	O	Data signal of expansion IC control	
83	EXP CLK	O	Clock signal of expansion IC control	
84	EXP OE	O	Output enable signal of expansion IC control	
85	EXP ST	O	Chip clock signal of expansion IC control	
86	FAN DR	O	"L" fixed	
87	TRANS DET	I	"H" fixed by hardware	
88	232CSW	I/O	232C switch L: Main unit, H: DSP microcomputer	
89	ROM DT	I/O	EEPROM control data signal	
90	ROM CK	O	EEPROM control clock signal	
91	SIMUKE1	I	Destination read 1	
92	SIMUKE2	I	Destination read 2	
93	S-DET	I	Sync detection H: S signal present "H" for sync detection	H
94	TEMP1	I	Temperature detection H: Protection function ON	H
95	NC	O	"L" fixed	
96	AVSS	–	Connect to VSS	
97	MIC-SW	O	5-3V conversion IC control H: MIC AMP ON	H
98	VREF	–	Connect to VCC	
99	AVCC	–	Connect to VCC	
100	FWRITE	I	Forced rewriting mode detection (H: Rewriting mode)	H

■ PD5686B (DISPLAY ASSY : IC3001)

• Display Microcomputer

● Pin Assignment (Top view)


1 FL SW P75/AN5
2 MR SW P74/AN4
3 KEY1 P73/AN3
4 KEY2 P72/AN2
5 KEY3 P71/AN1
6 KEY4 P70/AN0
7 1W W.UP P61/CNTR0/CNTR2
8 P60/CNTR1
9 SR IN P47/INT2
10 XRESET XRESET
11 P91/XCOUT
12 P90/XCIN
13 GND VSS
14 XIN XIN
15 XOUT XOUT
16 VDD VCC
17 CHECKER P46/T2OUT
18 P45/T1OUT
19 P44/PWM1
20 P43/BUZO1
21 232C DET P42/INT3
22 MR IN P41/INT1
23 MIC SW P40/INT0
24 POWER ON P87/PWMO/FLD39
25 P86/RTP1/FLD38
26 P85/RTP0/FLD37
27 P84/FLD36
28 VEE
29 P83/FLD35
30 P82/FLD34
31 P81/FLD33
32 P80/FLD32
33 P37/FLD31
34 P36/FLD30
35 P35/FLD29
36 P34/FLD28
37 P33/FLD27
38 P32/FLD26
39 P31/FLD25
40 P30/FLD24
41 P17/FLD23
42 P16/FLD22
43 P15/FLD21
44 P14/FLD20
45 P13/FLD19
46 P12/FLD18
47 P11/FLD17
48 P10/FLD16
49 P07/FLD15
50 P06/FLD14
51 P05/FLD13
52 P04/FLD12
53 P03/FLD11
54 P02/FLD10
55 P01/FLD09
56 P00/FLD08
57 P27/FLD07
58 P26/FLD06
59 P25/FLD05
60 P24/FLD04
61 P23/FLD03
62 P22/FLD02
63 P21/FLD01
64 P20/BUZ02/FLD00
65 P57/SRDY2/SCLK22
66 P56/SCLK21
67 P55/TXD
68 P54/RXD
69 P53/SCLK12
70 P52/SCLK11
71 P51/SOUT1
72 P50/SIN1
73 AVSS
74 AREF
75 P65/SSTB/AN11
76 P64/INT4/SBUSY/AN
77 P63/AN9
78 P62/SRDY1/AN8
79 P77/AN7
80 P67/AN6
I-LINK
MR/S
MC ACC
GND
NC
NC
NC

• Pin Function

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	FL SW	O	FL power supply ON/OFF	41	NC	O/L	Non connection
2	MR SW	O	MR PIONEER / OTHER	42	NC		
3	KEY1	I	KEY AD input	43	NC		
4	KEY2			44	NC		
5	KEY3			45	NC		
6	KEY4			46	NC		
7	1W W.UP	O	1W correspondence main wakeup	47	NC		
8	NC	O/L		48	NC		
9	SR IN	I	Remote control input of main room	49	NC		
10	RESET	–	Reset	50	NC		
11	NC	O/L	Non connection	51	NC		
12	NC			52	INPUT_R	I	Input SEL L
13	GND	–	Ground	53	INPUT_L	I	Input SEL R
14	XIN	–	Oscillator	54	FUNC_R	I	Multi JOG R
15	XOUT	–	Oscillator	55	FUNC_L	I	Multi JOG L
16	VDD	–	Power supply	56	VOL_–	I	VOL_–
17	CHECKER	I	Checker mode detection	57	VOL_+	I	VOL_+
18	NC	O/L	Non connection	58	NC	O/L	Non connection
19	NC			59	NC		
20	NC			60	NC		
21	232C DET	I	232C detection	61	NC		
22	MR IN	I	Remote control input of sub room	62	NC		
23	MIC SW	I	MIC detection	63	NC		
24	POWER ON	O	Power ON LED	64	NC		
25	I-LINK	O	I-LINK LED	65	RDY	O	Main communication RDY
26	MR/S	O	MR/S LED	66	CLK	I	Main communication CLK
27	MC ACC	O	Sound field	67	DO	O	Main communication data out
28	GND	–	Ground	68	DI	I	Main communication data in
29	NC	O/L	Non connection	69	FL_LAT	O	FL DRV LAT
30	NC			70	FL_CLK	O	FL DRV CLK
31	NC			71	FL_SI	O	FL DRV SI
32	NC			72	FL_BK	O	FL DRV BK
33	NC			73	GND	–	Ground
34	NC			74	VDD	–	Power supply
35	NC			75	LED_CLK	O	LED DRV CLK
36	NC			76	CS	O	Main communication CS
37	NC			77	LED_DAT	O	LED DRV DATA
38	NC			78	LED_LCK	O	LED DRV LCK
39	NC			79	LED_OE1	O	LED DRV OE
40	NC			80	STBY	O	STBY LED

M30620SAFP (DSP ASSY : IC701)

• DSP Microcomputer

• Pin Function

No.	Pin Name	I/O	Pin Function
1	DSP2MOSI	O	2nd DSP communication data output
2	DSP2SCK	O	2nd DSP communication clock output
3	DSP2SSI	O	2nd DSP communication strobe
4	DSP2RST	O	2nd DSP reset
5	HDO	O	Data output of microcomputer communication to main microcomputer
6	HDI	I	Data input of microcomputer communication from main microcomputer
7	HCLK	I	Clock input of microcomputer communication from main microcomputer
8	BYTE	I	Vcc (bus width 8 bit)
9	CNVSS	I	Vss (Use with memory expansion mode)
10	MODEL	I	Upper/lower model distinction input
11	FWRITE	I	FLASH rewrite control input
12	RESET	I	Reset input from main microcomputer
13	XOUT	O	Connect a ceramic resonator (7.7MHz)
14	VSS	–	Vss
15	XIN	I	Connect a ceramic resonator (7.7MHz)
16	VCC	–	Vcc
17	NMI	I	Vcc
18	96DTS	I	DTS 96kHz detection input
19	UNLK	I	UNLOCK signal input
20	DATA	I	DIR various factor data
21	DLCK	I	Demodulator UNLOCK
22	EXOE	O	OE output of expansion IC
23	S DATA	O	Data output of expansion IC
24	S CLOCK	O	Clock output of expansion IC
25	STB	O	Strobe output of expansion IC
26	DSP1RST	O	1st DSP reset
27	9624	O	DSP IC mute output (at DTS 96kHz)
28	DACMCLK	O	DAC/D.F. clock output
29	DSCMDI	I	DAC data input
30	DACMDO	O	DAC/D.F. data output
31	DSP1REQ	O	1st DSP communication request
32	DSP1RDWR	O	1st DSP READ/WRITE switch
33	DSP1BUSY	I	1st DSP BUSY communication wait
34	DSP1ACK	I	1st DSP communication completion check
35	CDTO	O	DIR serial communication data output / TxD (rewrite)
36	CDTI	I	DIR serial communication data input / RxD (rewrite)
37	CCLK	O	DIR serial communication output
38	CSN	O	DIR serial communication chip select / RTS (rewrite)
39	XRDY	I	Vcc
40	ALE	O	NC
41	XHOLD	I	Vcc
42	XHLDA	O	NC
43	BCLK	O	NC
44	XOE	O	Flash memory I/F read enable
45	XBHE	O	NC
46	XWE	O	Flash memory I/F write enable
47	MD	O	Gain amp data output
48	MC	O	Gain amp clock output
49	STB	O	Gain amp strobe output
50	XCE	O	Flash ROM CE control

• **Pin Function**

No.	Pin Name	I/O	Pin Function
51	A19	O	NC
52	A18	O	Address output of flash memory communication
53	A17		
54	A16		
55	A15		
56	A14		
57	A13		
58	A12		
59	A11		
60	A10		
61	A9		
62	Vcc	–	Vcc
63	A8	O	Address output of flash memory communication
64	Vss	–	Vss
65	A7	O	Address output of flash memory communication
66	A6		
67	A5		
68	A4		
69	A3		
70	A2		
71	A1		
72	A0		
73	XRST2	O	ADC reset output
74	DSPMUTE	O	Mute (Notify to the main microcomputer)
75	HRDY	O	Communication permission to the main microcomputer
76	DSP3REQ	O	3rd DSP communication request
77	DSP3RDWR	O	3rd DSP READ / WRITE switch
78	DSP3BUSY	I	3rd DSP BUSY communication wait
79	DSP3ACK	I	3rd DSP communication complete check
80	DSP3RST	O	3rd DSP reset
81	DQ7	I/O	Data input/output of flash memory communication
82	DQ6		
83	DQ5		
84	DQ4		
85	DQ3		
86	DQ2		
87	DQ1		
88	DQ0		
89	DSPDATA7	I/O	1st/3rd DSP data bit 7 (sharing port)
90	DSPDATA6		1st/3rd DSP data bit 6 (sharing port)
91	DSPDATA5		1st/3rd DSP data bit 5 (sharing port)
92	DSPDATA4		1st/3rd DSP data bit 4 (sharing port)
93	DSPDATA3		1st/3rd DSP data bit 3 (sharing port)
94	DSPDATA2		1st/3rd DSP data bit 2 (sharing port)
95	DSPDATA1		1st/3rd DSP data bit 1 (sharing port)
96	AVss	–	Vss
97	DSPDATA0	I/O	1st/3rd DSP data bit 0 (sharing port)
98	Vref	–	Vcc
99	AVcc	–	Vcc
100	DSP2MISO	I	2nd DSP communication data input

BU4094BCFV (DSP ASSY : IC703)

• **Expansion IC**

• **Pin Function**

No.	Pin Name	I/O	Pin Function
1	STB	I	Strobe input
2	DATA	I	Serial data input
3	CLOCK	I	Serial clock input
4	DART	O	DAC/D.F. reset
5	DION	O	Digital input power ON/OFF switch
6	HIFS	O	Clock switching output
7	FSDN	O	Fs sampling frequency down output
8	Vss	–	Vss
9	Qs	O	Connect to DATA of expansion IC
10	Qs'	–	Not used
11	DACS4	O	DAC/D.F. latch output 4
12	DACS3	O	DAC/D.F. latch output 3
13	DACS2	O	DAC/D.F. latch output 2
14	DACS1	O	DAC/D.F. latch output 1
15	OE	I	Microcomputer EXOE
16	Vdd	–	Vdd

BU4094BCFV (DSP ASSY : IC704)

• **Expansion IC**

• **Pin Function**

No.	Pin Name	I/O	Pin Function
1	STB	I	Strobe input
2	DATA	I	Connect to pin 9 of expansion IC1
3	CLOCK	I	Serial clock input
4	XTLO	O	DIR XTLO control
5	NORM	O	Control output for DTS96
6	XADC	O	Analog/Digital switching output
7	STOP	O	Control output for DTS96
8	Vss	–	Vss
9	Qs	–	Connect to DATA of expansion IC3
10	Qs'	–	Not used
11	RFON	O	RF demodulation power ON/OFF switch
12	DSTP	O	Demodulator stop output
13	DRST	O	Demodulator reset output
14	XPDN	O	DIR power down
15	OE	I	Microcomputer EXOE
16	Vdd	–	Vdd

■ BU4094BCFV (DSP ASSY : IC705)

• Expansion IC

● Pin Function

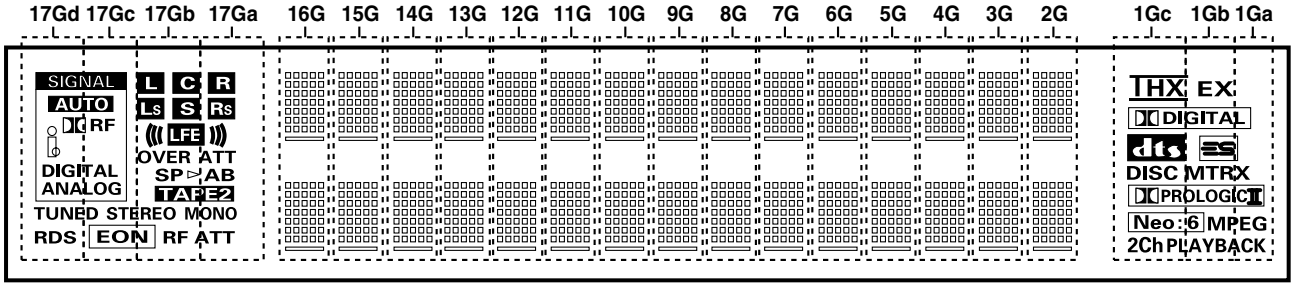
No.	Pin Name	I/O	Pin Function
1	STB	I	Strobe input
2	DATA	I	Connect to pin 9 of expansion IC2
3	CLOCK	I	Serial clock input
4	IEEE	O	Input switching output 1
5	OPT4	O	2nd PLL 256/384 switch
6	DVDA	O	2nd PLL clock switch
7	NC	O	Non connection
8	Vss	–	Vss
9	Qs	–	Connect to DATA of expansion IC4
10	Qs'	–	Not used
11	NC	O	Non connection
12	192K	O	D.F. x4 sampling output
13	NC	O	Non connection
14	NC	O	Non connection
15	OE	I	Microcomputer EXOE
16	Vdd	–	Vdd

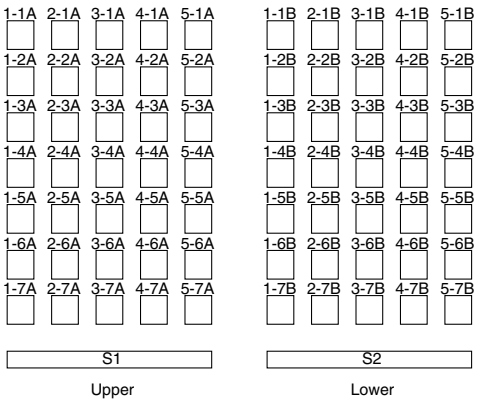
7.2.2 DISPLAY

■ AAV7081 (DISPLAY ASSY : V3001)

• FL Indicator Tube

● Grid Assignment





● Anode Connection

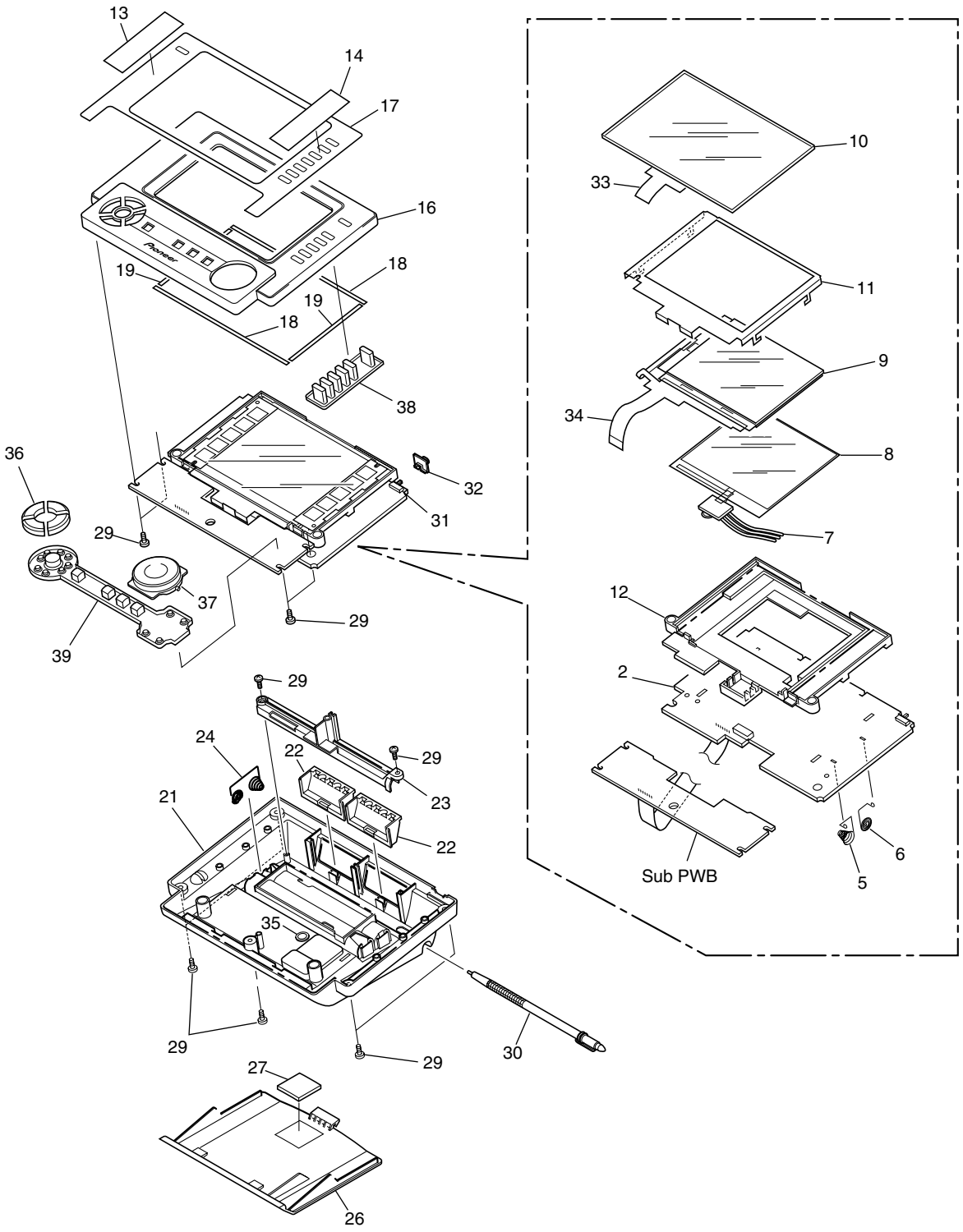
	17Gd to 17Ga	16G to 2G	1Gc to 1Ga		17Gd to 17Ga	16G to 2G	1Gc to 1Ga
P1	L	1-1A	–	P37	–	1-1B	THX
P2	C	2-1A	–	P38	–	2-1B	EX
P3	R	3-1A	–	P39	–	3-1B	DIGITAL
P4	Ls	4-1A	–	P40	–	4-1B	dts
P5	S	5-1A	–	P41	–	5-1B	ES
P6	Rs	1-2A	–	P42	–	1-2B	DISC
P7	LFE	2-2A	–	P43	–	2-2B	MTRX
P8	((( )))	3-2A	–	P44	–	3-2B	PROLOGIC II
P9	SIGNAL	4-2A	–	P45	–	4-2B	Neo:6
P10	AUTO	5-2A	–	P46	–	5-2B	MPEG
P11	RF	1-3A	–	P47	–	1-3B	2Ch PLAYBACK
P12		2-3A	–	P48	–	2-3B	–
P13	DIGITAL	3-3A	–	P49	–	3-3B	–
P14	ANALOG	4-3A	–	P50	–	4-3B	–
P15	OVER	5-3A	–	P51	–	5-3B	–
P16	ATT	1-4A	–	P52	–	1-4B	–
P17	SP	2-4A	–	P53	–	2-4B	–
P18	▻	3-4A	–	P54	–	3-4B	–
P19	A	4-4A	–	P55	–	4-4B	–
P20	B	5-4A	–	P56	–	5-4B	–
P21	TAPE2	1-5A	–	P57	–	1-5B	–
P22	TUNED	2-5A	–	P58	–	2-5B	–
P23	STEREO	3-5A	–	P59	–	3-5B	–
P24	MONO	4-5A	–	P60	–	4-5B	–
P25	RDS	5-5A	–	P61	–	5-5B	–
P26	EON	1-6A	–	P62	–	1-6B	–
P27	□(EON)	2-6A	–	P63	–	2-6B	–
P28	RF ATT	3-6A	–	P64	–	3-6B	–
P29	–	4-6A	–	P65	–	4-6B	–
P30	–	5-6A	–	P66	–	5-6B	–
P31	–	1-7A	–	P67	–	1-7B	–
P32	–	2-7A	–	P68	–	2-7B	–
P33	–	3-7A	–	P69	–	3-7B	–
P34	–	4-7A	–	P70	–	4-7B	–
P35	–	5-7A	–	P71	–	5-7B	–
P36	–	S1	–	P72	–	S2	–

7.3 REMOTE CONTROL UNIT

7.3.1 EXPLODED VIEWS and PARTS LIST

■ AXD7295 (Remote control unit)

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*

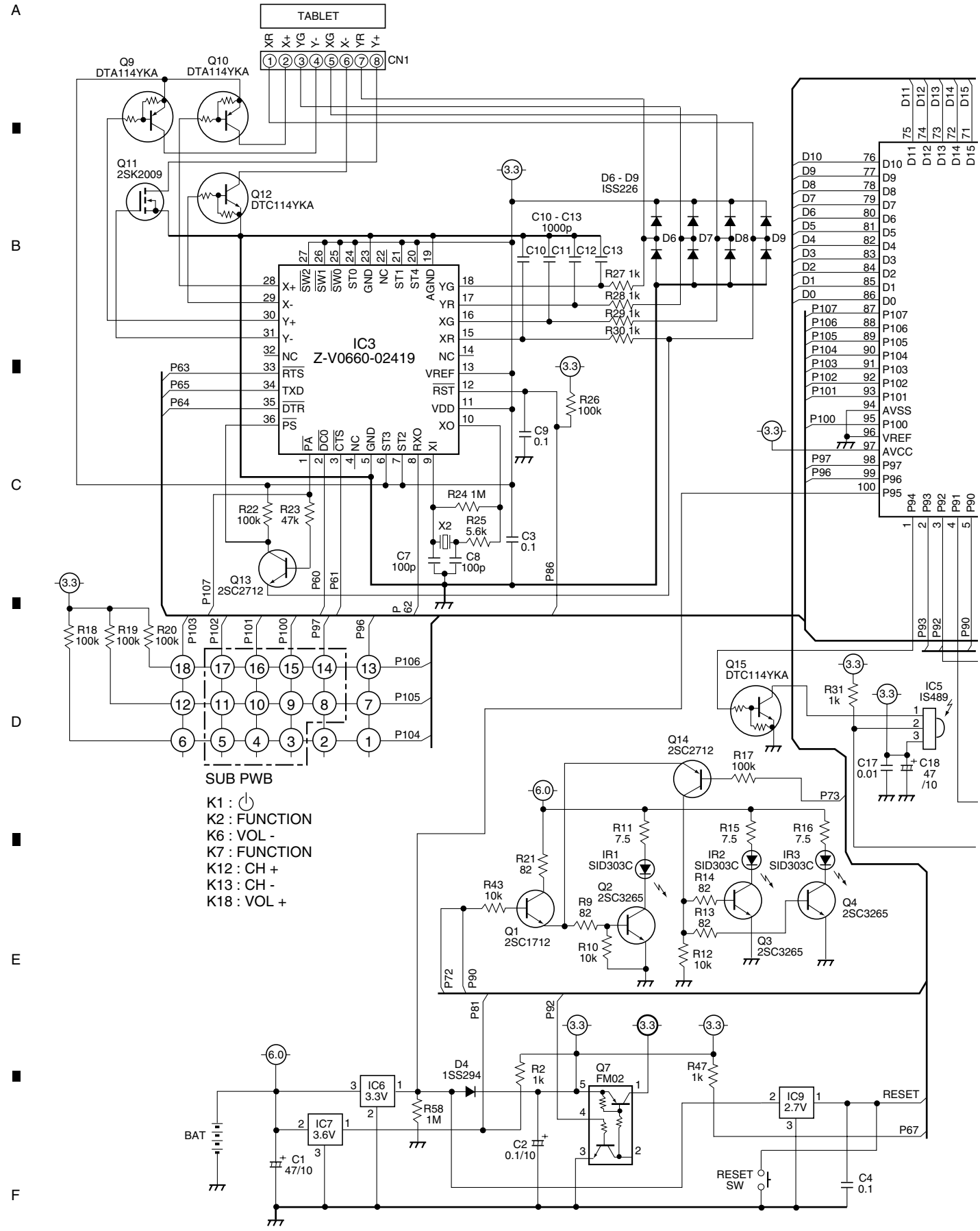


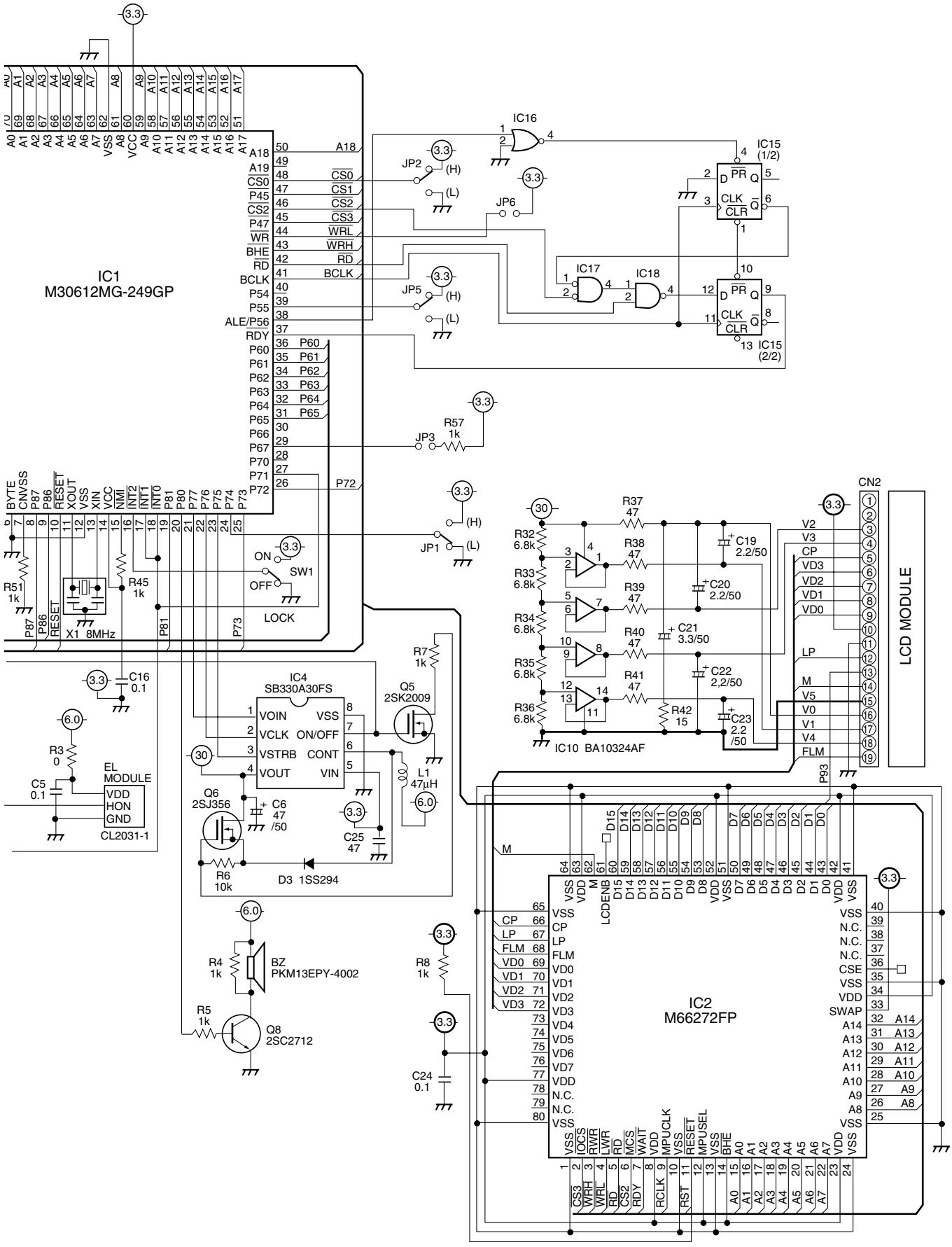
• parts List

Mark	No.	Description	Part No.
	1	•••••	
	2	PCB Assy	AZC7299
	3	•••••	
	4	•••••	
	5	Terminal A	411RRC15801R
	6	Terminal B	411RRC15901R
	7	Jumper Cable	E–AA1446–001
	8	EL Module	AZC7294
	9	LCD Module	AZC7295
	10	Touch Panel	NTX01005701R
	11	Frame	501RRC01901R
	12	LCD Holder	AZN7787
	13	Seal A	AZA7415
	14	Seal B	AZA7416
	15	•••••	
	16	Case A	AZN7783
	17	Name Plate	AZA7406
	18	Cushion A	701RRC04801R
	19	Cushion B	701RRC04901R
	20	•••••	
	21	Case B	AZN7784
	22	Filter	AZA7343
	23	Pen Holder	AZN7786
	24	Terminal	413RRC11201R
	25	•••••	
	26	Battery Cover	AZN7785
	27	Cushion C	701RRC03501R
	28	•••••	
	29	Screw	AZB7144
	30	Touch Pen	AZA7350
	31	Slide Switch	JSB1220–0111
	32	Slide Knob	AZA7347
	33	FPC Connector	CFP5519–0101
	34	FPC Connector	E-CP0535–008
	35	MT Switch	JPM1030–0801
	36	Key Top A	AZA7345
	37	Key Top B	AZA7346
	38	Rubber Sheet A	AZA7410
	39	Rubber Sheet B	AZA7411

7.3.2 Remote SCH

SCHEMATIC DIAGRAM

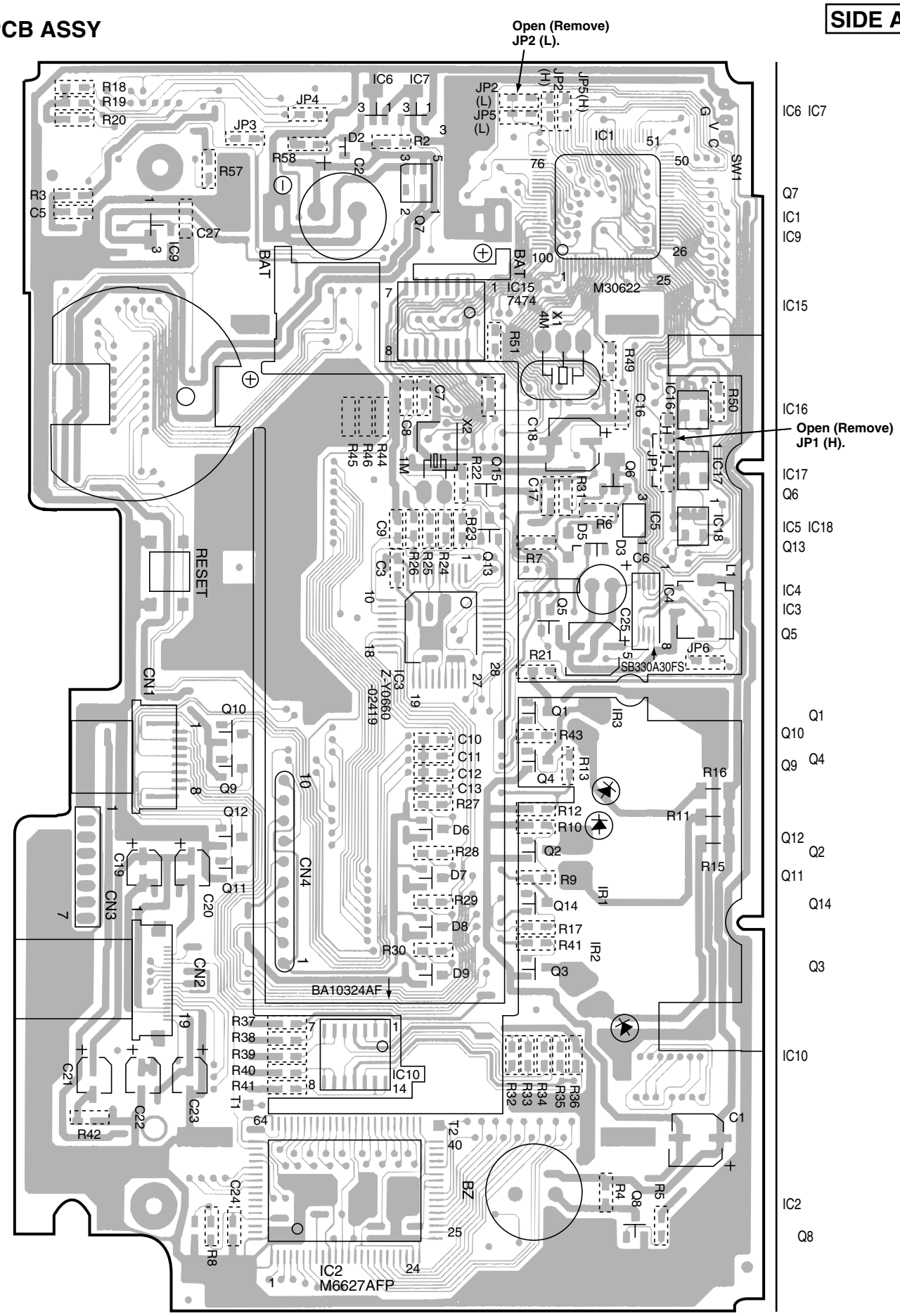



IC1
M30612MG-249GP
IC2
M66272FP
IC4
SB330A30FS
IC10 BA10324AF
IC15 (1/2)
IC15 (2/2)
IC16
IC17
IC18
LCD MODULE
CN2
X1 8MHz
LOCK
SW1
JP1
JP2
JP3
JP5
JP6
EL MODULE
CL2031-1
BZ
PKM13EPY-4002
Q5
2SK2009
Q6
2SJ356
Q8
2SC2712
D3 1SS294
L1
47µH

7.3.3 Remote PCB Diagram

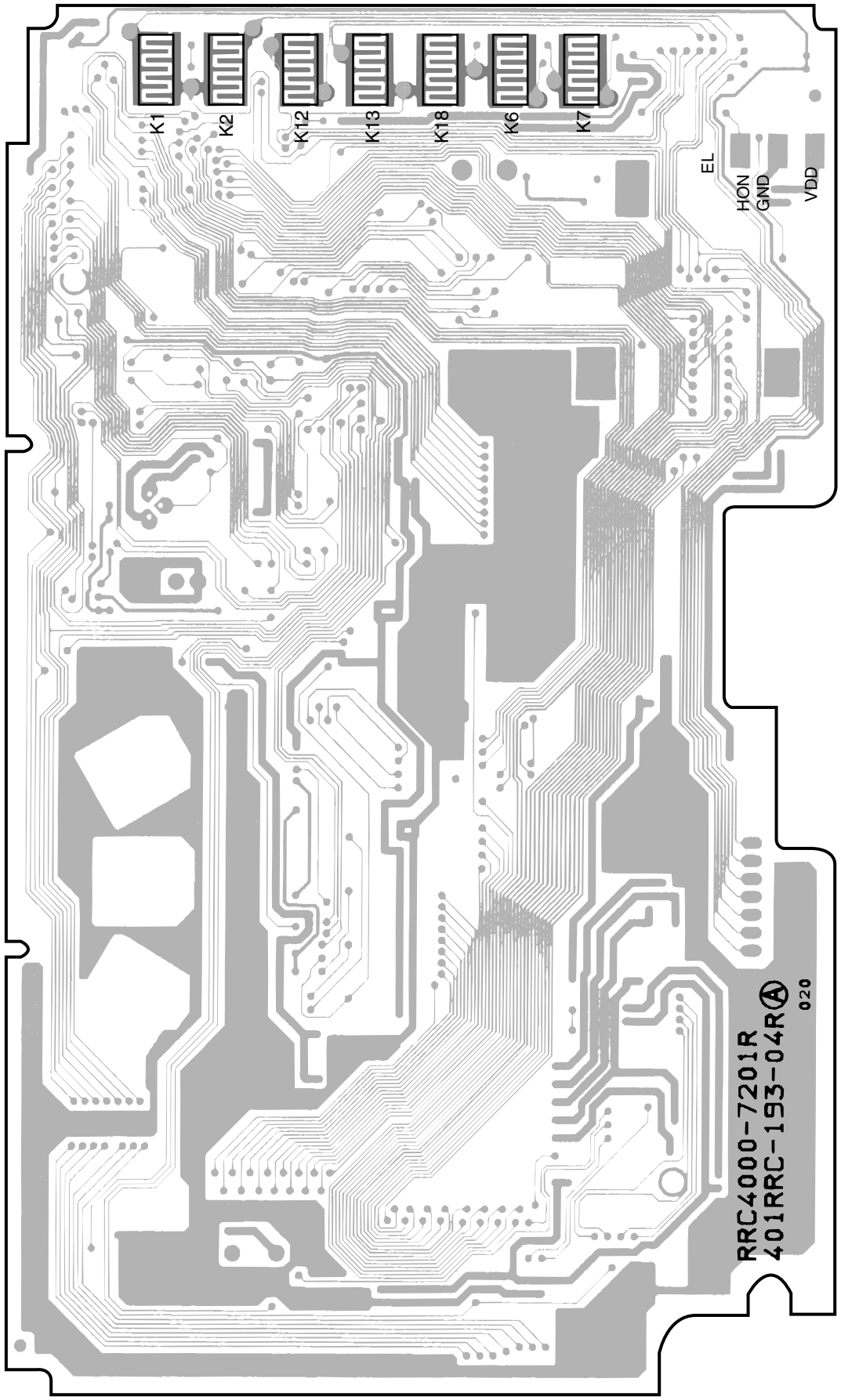
PCB ASSY

SIDE A



Remote PCB DIAGRAM

SIDE B



7.3.4 Remote PARTS List

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 x 10^1 → 561 ····· RD1/4PU 5 6 1 J
47k Ω → 47 x 10^3 → 473 ····· RD1/4PU 4 7 3 J
0.5 Ω → R50 ····· RN2H R 5 0 K
1 Ω → 1R0 ····· RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

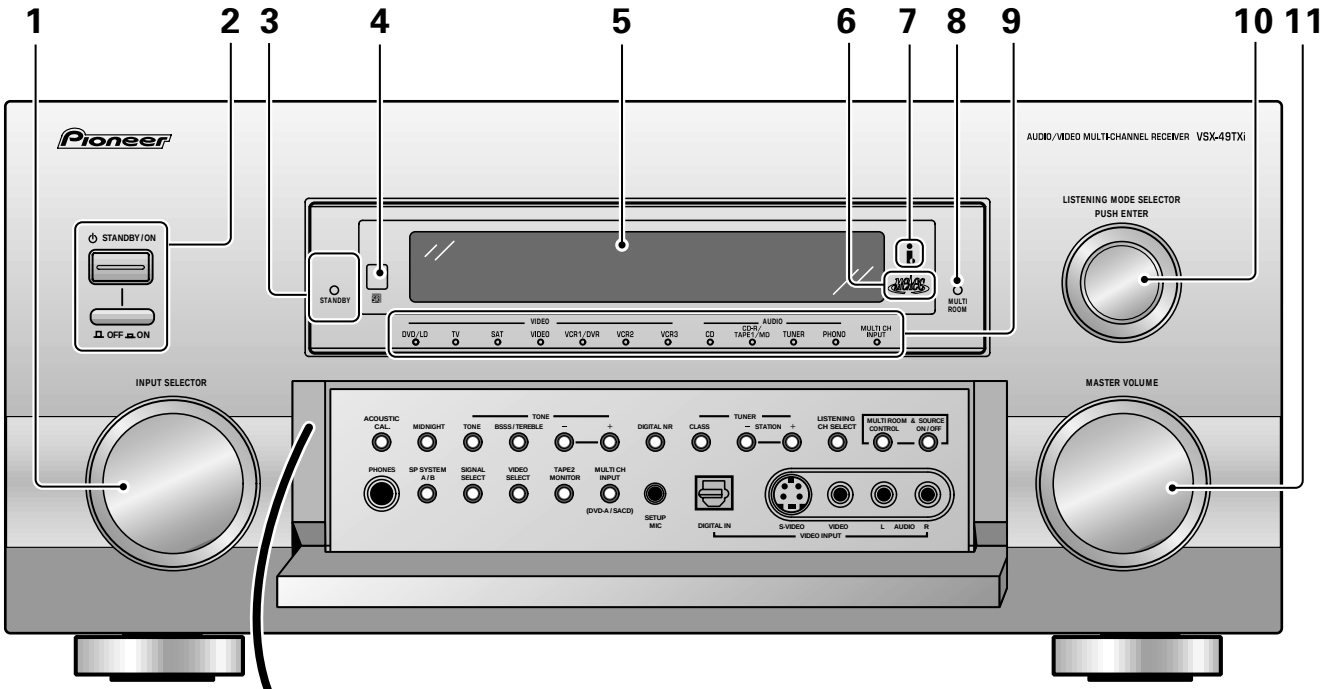
5.62k Ω → 562 x 10^1 → 5621 ····· RN1/4PC 5 6 2 1 F

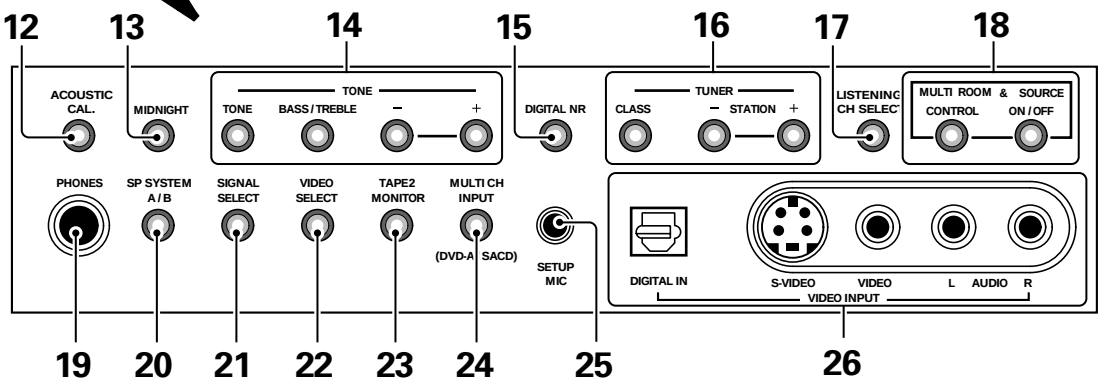
Mark No.	Description	Part No.
IC1		M30622MC-4JOFA
IC2		NJU6469LFC1-05
IC3		S-818A33AMC-BGN
IC4		74HC08
IC6		TC7S04F
Q1,Q11		RN2414
Q2,Q3,Q5,Q7		2SC2712
Q4		2SA1162
Q6		2SC3265
Q9,Q10		DTD113ZK
Q12		S-80826ANNP-EDP
Q8		S-80836ANNP-EDO
Q10		2SA1037
D5		SID303C-01
D1		1SS294
D3		SPS-503C
D2,D4,D30		RLS-73
D6		1SS181
D8-D25		BR1111C
D26-D29		FA1101F-430
C3		0.1F/6.3v
C4		1000mF/6.3v
C6, C9		47mF/10v
C14		10mF/10v
C2,C5,C11,C17-C19		0.1mF/25v
C7,C12		1mF/25v
C8		470pF/25v
R17		15W 1/4w
Other Resistors		RS1/16SJ
XI	Ceramic Resona(8MHz)	CST8.00MTW
LCD		T557007

8. PANEL FACILITIES

8.1 PANEL FACILITIES

■ Front section





1 INPUT SELECTOR dial
Turn to select a source component. (You can also use to select a source in the MULTI-ROOM & SOURCE mode.) The input indicators show the current component.

2 ⏻ STANDBY/ON button–power ON/OFF button
Press to switch the receiver ON or into STANDBY mode or to switch OFF.

3 STANDBY indicator
Lights when the receiver is in STANDBY mode. (Please note that this receiver consumes a small amount of power [0.65 W] in the standby mode.)

4 Remote sensor
Receives the signals from the remote control.

5 Display

6 MCACC indicator
Lights when the ACOUSTIC CAL EQ is on. (After the Auto Surround Sound Setup has been completed the ACOUSTIC CAL EQ is set on and this display will light.)

7 i.LINK indicator
Lights when an i.LINK-Audio-equipped component is selected.

8 MULTI-ROOM indicator
Shows whether the multi-room function is active or not.

9 INPUT indicators
Shows which source component is selected. The MULTI CH INPUT indicator lights when a component connected to MULTI CH INPUT is selected. When an unassigned i.LINK-equipped component is selected, no INPUT indicator will light.

10 LISTENING MODE SELECTOR dial
Turn and push to select a listening mode.

Displays & Controls

11 MASTER VOLUME dial
Adjusts the overall receiver volume.

12 ACOUSTIC CAL. button
Use to switch on and off the Acoustic Calibration EQ.

13 MIDNIGHT button
Use to switch the receiver into MIDNIGHT mode.

14 TONE control buttons

TONE button
This button switches between TONE ON and TONE BYPASS, which bypasses the tone circuitry.

BASS/TREBLE button
Use to select whether the bass or treble will be adjusted..

(–/+) buttons
Use to adjust the frequency level.

15 DIGITAL NR button
Switches the DIGITAL NR on or off.

16 TUNER CONTROL buttons
CLASS button – Press repeatedly to switch the preset station classes.

–/+ button – Use to choose programmed radio stations.

17 LISTENING CH SELECT button

Use this button to select the number of channels used for playback (5.1, 7.1, or AUTO).

18 MULTI-ROOM & SOURCE buttons

Press to use the multi room feature (requires an optional PIONEER Multi-Room Remote Sensor Unit MR-100 or another IR receiver).

CONTROL button: Used together with the INPUT SELECTOR to select the function or use with the MASTER VOLUME to select the volume of the MULTI ROOM system.

ON/OFF button: Use to switch Multi-room function on or off.

19 PHONES jack
Connect headphones for private listening (no sound will be heard through the speakers).

20 SP SYSTEM A/B button
Use to select the speaker system. A is the primary setting. The button cycles through the speaker systems as follows: A⇨B⇨A&B⇨off. Different conditions apply when bi-amping the speakers.

21 SIGNAL SELECT button
Use to select the type of signal being input into the receiver. Press SIGNAL SELECT repeatedly to select one of the following (Depends on settings in INPUT ASSIGN available inputs will change.):

ANALOG – To select an analog signal.

i – To select an i.LINK signal.

DIGITAL – To select an optical or coaxial digital signal.

RF – To select an RF signal.

AUTO – This is the default setting. The receiver selects a signal based on availability, in the following order of priority: i, RF, DIGITAL, ANALOG.

22 VIDEO SELECT button
Switches the receiver between the various types of video input.

23 TAPE 2 MONITOR button
Selects the tape deck (MD recorder, etc.) connected to the TAPE 2 MONITOR inputs/outputs. Allows monitoring of a recording as it's being made.

24 MULTI CH INPUT button
Selects the component (for example, a DVD-A player) you have hooked up to the MULTI CH INPUT terminals.

25 SETUP MIC jack
Plug in the setup mic here. This is very important for setting up your system to get proper surround sound.

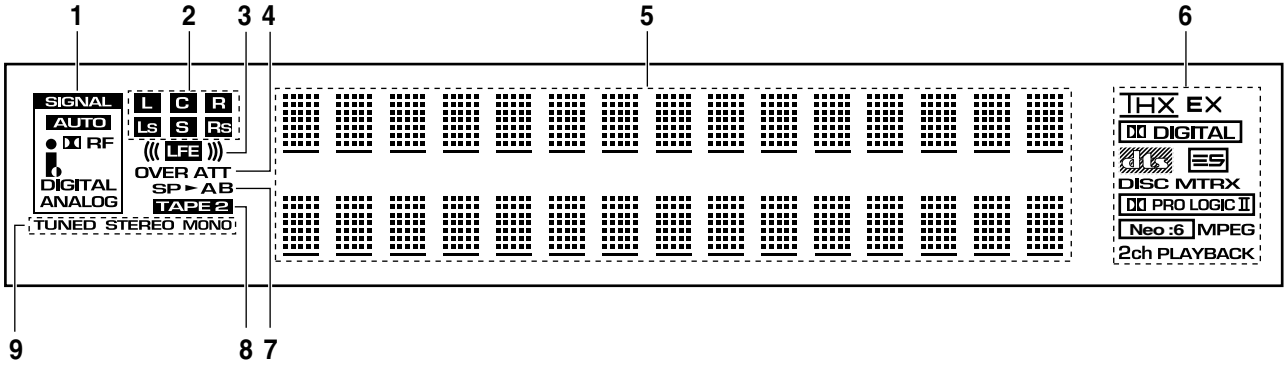
26 Front VIDEO INPUT jacks
DIGITAL IN : digital input for connecting a game console, portable DVD player, video camera (etc.), that has an optical digital connection.

S VIDEO : Video input for connecting a video camera (etc.), that has an S video out.

RCA VIDEO / AUDIO (L/R) : Video/audio input for connecting a video camera, etc. that has standard RCA video/audio outputs.

Display

All the display information is explained and/or referenced here.



1 SIGNAL SELECT indicators

Light to indicate the input signal you selected.

ANALOG : Lights when an analog signal is selected.

i : Lights when the receiver is set to select an i.LINK component.

DIGITAL : Lights when a digital signal is selected.

RF : Lights when an RF signal is selected.

AUTO : Lights when the receiver is set to select the input signal automatically.

2 Program Format indicators

For Dolby Digital or DTS sources : These indicators change according to which channels are active in the source. When all three **LS** (left surround), **S** (surround) and **RS** (right surround) light at the same time it means a source with a 6.1ch playback flag is being used.

L – Left front channel.
C – Center channel.
R – Right front channel.
LS – Left surround channel.
S – Surround channel (mono).
RS – Right surround channel.
LFE – Low frequency effects channel.

3 ((( ))) – Lights when LFE signal is input.

4 Analog level indicators

OVER – This lights if the signal is in danger of distorting for analog source signals. Press INPUT ATT on the front panel to lower the signal level.

ATT – Lights when INPUT ATT is used to reduce the level of the analog source signal.

5 Character display

Shows current mode, status, etc.

6 Digital format indicators

DIGITAL : Lights when a Dolby Digital signal is detected.

DTS : Lights when a DTS signal is detected.

MPEG : Lights when an MPEG signal is detected.

THX : Lights when the HOME THX mode is selected.

EX : Lights during Surround EX matrix processing.

ES : Lights when a decoding DTS ES audio.

DISC : Lights during DTS ES discrete processing.

MTRX : Lights during DTS ES matrix processing.

PRO LOGIC II : Lights during Dolby Pro Logic II processing.

Neo:6 : Lights during Neo: 6 processing.

2ch PLAYBACK : Lights during two-channel playback.

7 Speaker indicators

Light to indicate the current speaker system, A and/or B.

8 TAPE 2 indicator

Lights when the TAPE 2 monitor is on.

9 TUNER indicators

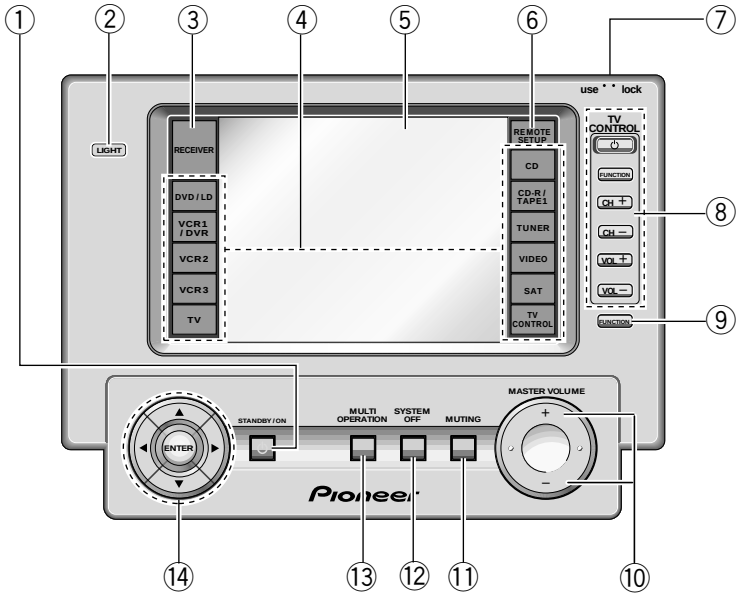
MONO : Lights when the tuner is set to receive FM broadcasts and when selected MPX mode.

STEREO : Lights when a FM stereo broadcast is received in the auto stereo mode.

TUNED : Lights when a broadcast is received.

Remote Control

These pages describe the buttons on the remote control. Since the screen on this LCD remote control changes when you select a different function, explanations of buttons for controlling other components/functions can be found in the sections for those components/functions.



memo To turn on the remote control touch it anywhere on the screen

① ⏻ **STANDBY/ON button**
Press to turn power of the receiver on or to STANDBY (off).

② **LIGHT button**
Use to turn on and off the backlight on the remote control screen.

③ **RECEIVER button**
Press to switch the remote control into receiver mode or to get receiver screens.

④ **Function buttons**
These buttons are the basic controls that switch the mode of the receiver and the remote control, which allows you to control your other components.

⑤ **Remote control screen**

⑥ **REMOTE SETUP button**
Use to customize the remote control functions and the remote control itself. (see "Setting Up Remote Control of Other Components")

⑦ **LOCK switch**
Use to lock the remote control so it doesn't turn on by accident. For normal use keep it set in USE.

⑧ **TV CONTROL buttons**
The following buttons are used to control the TV only and can be used once they are preset to control your TV.
⏻ **STANDBY/ON :** Press to turn the power of the TV on/off.
INPUT : Press to select the input source for the TV.
CH +/– : Use these buttons to change the channel of the TV.
VOL +/– : Press to control the volume of the TV.

⑨ **INPUT button**
Press to select a source. The button will cycle through all the possible sources.

⑩ **MASTER VOLUME button**
Use to raise or lower the volume of the receiver.

⑪ **MUTING button**
Press to mute or restore the volume.

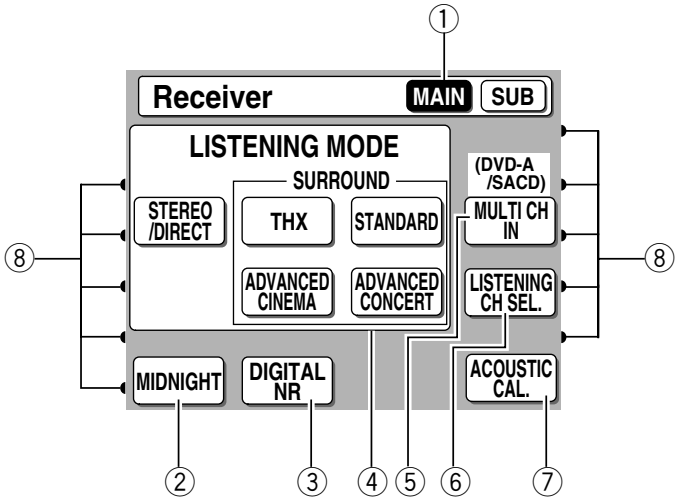
⑫ **SYSTEM OFF button**
This button turns off components in two ways. First, when pressed it will turn off all PIONEER components. Secondly, any component that has programmed into the SYSTEM OFF settings will be turned off.
For example : If you programmed power off in the SYSTEM OFF settings for your TV and VCR, pressing the SYSTEM OFF button will turn off these components even if they are not PIONEER products.

⑬ **MULTI OPERATION button**
Use this button to start the MULTI OPERATION mode. See p.85 & 86 for how to program and use the MULTI OPERATION mode.

⑭ **▲/▼/◄/►/ENTER buttons**
These buttons can be used for a variety of operations. In the SYSTEM SETUP menu, the ▲/▼ buttons can be used to adjust CHANNEL DELAY or CHANNEL LEVEL.
The ▲/▼ buttons, pressed simultaneously, can be use to lock or unlock a setting
These buttons are also used to control the DVD menu for the DVD remote control screen. Also, in TUNER mode they can select station and frequency.

Basic Receiver LCD Screens

Receiver MAIN Screen



① **Receiver MAIN button**
Press this button to select the MAIN receiver screen (above) when the remote control is on the SUB receiver screen.

② **MIDNIGHT button**
Switches the MIDNIGHT listening mode on or off (for all modes except THX).

③ **DIGITAL NR button**
Switches the DIGITAL NR on or off (for all modes except THX).

④ **LISTENING MODE buttons**
STEREO/DIRECT: Switches the receiver into STEREO mode if it was in a different listening mode or toggles between DIRECT and STEREO mode.
THX: Press to put the receiver into HOME THX listening mode.
STANDARD: Press to put the receiver into STANDARD listening mode.
ADVANCED CINEMA: Press to put the receiver into ADVANCED CINEMA listening mode.
ADVANCED CONCERT: Press to put the receiver into ADVANCED CONCERT listening mode.

⑤ **MULTI CH IN button**
Use this button to select the component (for example, a DVD-A player) you have hooked up to the MULTI CH INPUT terminals.

⑥ **LISTENING CH SEL. button**

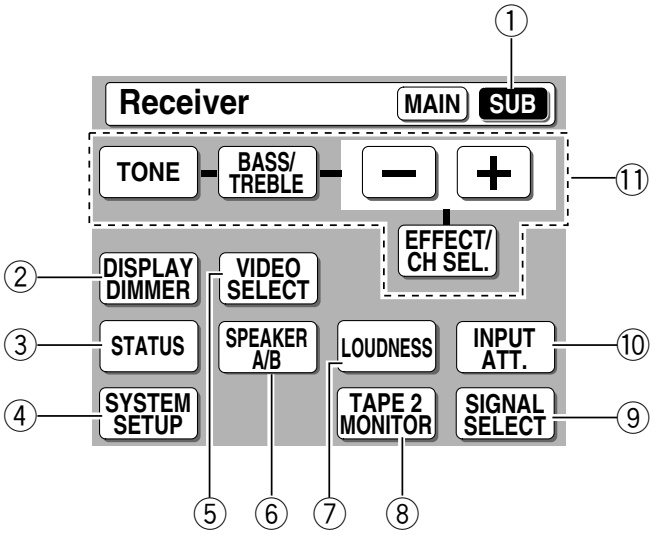
Use this button to select a listening channel (5.1, 7.1, or AUTO)

⑦ **ACOUSTIC CAL. button**
Press to switch on/off the acoustic calibration EQ.

⑧ **DIRECT FUNCTION on/off indicator**

These dots indicate weather the DIRECT FUNCTION is on or off for the function (DVD/LD, CD, etc.) they point to.

Receiver SUB Screen



① Receiver SUB button

Press this button to select the SUB receiver screen (above) when the remote control is on the main receiver screen.

② DISPLAY DIMMER button

Use to adjust the brightness of the receiver's display.

③ STATUS button

Use to display the present mode of the receiver and other selected settings.

④ SYSTEM SETUP button

Use for all system setups, including the speaker and sound systems. For more information see "Setting up for Surround Sound".

⑤ VIDEO SELECT button

Use to toggle between the different video input possibilities.

⑥ SPEAKER A/B button

Use to select the speaker system. A is the primary setting. The button cycles through the speaker systems as follows: A⇨B⇨A&B⇨off. Different conditions apply when bi-amping the speakers.

⑦ LOUDNESS button

Switches the LOUDNESS mode on or off (for all modes except THX).

⑧ TAPE 2 MONITOR button

Selects the tape deck (or MD recorder, etc.) connected to the TAPE 2 MONITOR inputs/ outputs. Allows monitoring of a recording as it's being made.

⑨ SIGNAL SELECT button

Press SIGNAL SELECT repeatedly to select one of the following (Depends on settings in INPUT ASSIGN, available inputs will change.):

ANALOG : To select an analog signal.
i : To select an i.LINK signal.
DIGITAL : To select an optical or coaxial digital signal.

RF : To select an RF signal.
AUTO : This is the default. The receiver selects a signal based on availability, in the following order of priority: i, RF, DIGITAL, ANALOG.

⑩ INPUT ATT. button

Use to lower the input level of an analog signal that is too powerful, thus causing the receiver to distort. In this case the overload (OVER) indicator will be flashing furiously.

⑪ TONE control/EFFECT CH SEL. buttons

TONE button

This button has two functions. Firstly, it switches between TONE on and TONE BYPASS, which bypasses the tone circuitry. Secondly, you need to press the button before using the BASS & TREBLE (+/–) buttons.

EFFECT/CH SEL. button

Switches the tone adjust controls between the front, center, surround and surround back speakers. While in Advanced mode, you can also adjust the effect level or SOUND DELAY in 5 ms steps from 0 to 200 ms to match sound with slower video displays.

You can then use the + and – buttons to adjust the sound.